PERIODICAL ROOM
GENERAL LIBRARY
UNIV. OF MICH.
MAR 14 1932

APRIL 1932

The American Home

Doubleday, Doran & Co., Inc.

10¢

An expert teaches **CURTAIN MAKING**

FOUR $5000 HOMES *Plans and specifications*

The Rug of the Month

From the Looms of Mohawk comes this Aristocrat of American Wiltons.

THE IMPERIAL KARNAK

The pattern shown above is a Chinese design—6046-F

Back into vogue with a rush comes—the Wilton rug! Women everywhere, newly convinced of its style, its charm and the economy of its long service, have demanded the Wilton once more. ¶ As Wilton headquarters—more Wiltons issuing from the looms of Mohawk than from any other mill—Mohawk is prepared for this nation-wide Wilton revival. ¶ In the Imperial Karnak, finest of Mohawk's *worsted* Wiltons, there is a choice of 25 exquisite patterns, including several of the Chinese design now so popular as a decorative base. All are fringed and all may be had in every standard size. ¶ The virgin wools used in the Imperial Karnak are of the highest grade and this, together with the great care with which it is woven, insures a *lasting* beauty. It makes the purchase of an Imperial Karnak a genuine investment—especially at the new prices prevailing to-day! ¶ Mohawk has designated the Imperial Karnak—together with the Imperial Karona and the Royal Akbar—as the Rug-of-the-Month for April. Visit the Mohawk dealer in your city. See these rugs. Picture their soft beauty spread upon *your* floors—then make your selection.

Wools make the rug—plus design and color—and only the finest wools go into Mohawk rugs and carpets. Mohawk has just published a charmingly illustrated story of the world sources of its wools, together with a sample of the actual wool, so that you can judge of its quality for yourself. You may have a copy free. Send for it. Address: Mohawk Carpet Mills, 295 Fifth Avenue, New York.

¶ THE IMPERIAL KARONA — THE ROYAL AKBAR ¶

A worsted Wilton in 13 newly-styled designs, each with the pattern woven through to the back and available in all standard sizes.

A wool Wilton offered in 21 varied patterns to insure a complete harmony with your home decoration. All standard sizes, of course.

MOHAWK *Styled* RUGS & CARPETS

The American Home

Contents for April, 1932

VOLUME VIII NUMBER I

		PAGE
Cover Design by Forrest W. Orr		
Frontispiece		4
An Expert Teaches Curtain Making	*Jane White Lonsdale*	5
Give a Thought Now to Chrysanthemums	*C. E. F. Gersdorff*	8
The Comforts of Home	*Marjorie Lawrence*	9
Dwarf Fruit Trees for the Small Lot	*Freeman Howlett*	11
Modern Sunrooms	*Dorothy Stacey Brown*	12
What this Country Needs—A Good $5,000 House	*Howard & Frenaye*	14
A Budget Guest Room	*Sally Saltonstall*	19
Heralds of Time		21
Frozen Foods	*Donald M. Taylor*	22
Table Magic in Cooking	*Louise Gibbons Gurnee*	23
A Time-Table for Your Vegetable Supply		25
A Course in Furniture—XIII. Biedermeier Furniture		26
Waterproofing the Cellar	*J. Paul Atwood*	28
A Daily Program for Beauty	*Dorothy Cocks*	29
Now Is the Time to Remodel	*Roger B. Whitman*	30
Annuals	*Romaine B. Ware*	32
New Plants for the Dry Rock Garden	*Adolph Kruhm*	34
Shop Windows of To-day	*Diana North*	46
In and About the Garden	*Leonard Barron*	52
Garden Reminders		54
Hearthstone Booklets		58
Cascade Chrysanthemums	*T. H. Everett*	61
Index to Advertisers		66

REGINALD T. TOWNSEND
Editor

LEONARD BARRON
Horticultural Editor

HENRY HUMPHREY
Managing Editor

FREDERICK KLARMAN
Art Editor

ELIZABETH H. RUSSELL
Associate Editor

DOUBLEDAY, DORAN & COMPANY, INC., GARDEN CITY, NEW YORK; PUBLISHERS OF WORLD'S WORK, COUNTRY LIFE, THE AMERICAN HOME, SHORT STORIES, LE PETIT JOURNAL, EL ECO, WEST.

BOOK SHOPS (BOOKS OF ALL PUBLISHERS): NEW YORK: LORD & TAYLOR; JAMES MCCREERY & COMPANY; PENNSYLVANIA TERMINAL; 1 WALL STREET; GRAND CENTRAL TERMINAL; 50 EAST 42ND STREET; 53 EAST 44TH STREET; 105 EAST 57TH STREET; 370, 420, 526, AND 819 LEXINGTON AVE.; 31 NASSAU ST.; PHILADELPHIA: BROAD STREET STATION BUILDING; CHICAGO: MANDEL BROTHERS; ST. LOUIS: 310 N. 8TH ST., and 4914 MARYLAND AVE.; SPRINGFIELD, MASS.: MEEKINS, PACKARD & WHEAT; SYRACUSE, N. Y.: DEY BROTHERS & CO.

OFFICES: GARDEN CITY, NEW YORK; NEW YORK: 244 MADISON AVENUE; BOSTON: PARK SQUARE BUILDING; CHICAGO: PEOPLES GAS BUILDING; CALIFORNIA: SANTA BARBARA; LONDON: WM. HEINEMANN. LTD.; TORONTO: DOUBLEDAY, DORAN & GUNDY, LTD.

OFFICERS: F. N. DOUBLEDAY, CHAIRMAN OF THE BOARD; NELSON DOUBLEDAY, PRESIDENT; RUSSELL DOUBLEDAY, VICE-PRESIDENT; JOHN J. HESSIAN, TREASURER; LILLIAN A. COMSTOCK, SECRETARY; L. J. MCNAUGHTON, ASSISTANT TREASURER.

COPYRIGHT, 1932, BY DOUBLEDAY, DORAN & COMPANY, INC. ALL RIGHTS RESERVED.

TITLE REGISTERED IN U. S. PATENT OFFICE. SUBSCRIPTION $1.00 A YEAR; FOR CANADA, $1.50; FOREIGN, $2.00. ENTERED AS SECOND CLASS MATTER AT GARDEN CITY, NEW YORK, UNDER THE ACT OF CONGRESS, MARCH 3, 1879.

A New Emancipation Proclamation

THE Emancipation of Women—these words bring up pictures of bloomered and determined ladies on bicycles pursued by jeering boys, suffragists setting fire to the castles of startled British lords, or little Susan Anthony facing hostile mobs.

"The Emancipation of Women" seems as obsolete as "Free Silver" or "Remember the Maine" or any other of the slogans that stirred the past generation. Yet only now is it coming into reality. For, after all the years of agitation with apparent victory won, in countless American homes to-day emancipation is as far from realization for women as it ever was. To be sure, they have the vote. But this is an empty gesture unless there is among women a mighty consciousness of new and wider horizons for their emancipated lives.

Emancipation comes, if it comes at all, in terms of order and organization, so that there can be escape from senseless drudgery, relief from the gray monotonies of life and a treadmill routine.

For it profiteth a woman (or a man for that matter) to gain the vote and at the same time keep her soul. What does emancipation mean to one bound by four kitchen walls or slave to a series of household jobs as repetitious and monotonous as any faced by a factory worker?

THE AMERICAN HOME has from the beginning played a foremost part in bringing a new emancipation to daily living values. Here is no compendium of household hints but a frankly liberating medium. The magazine has won its far-flung welcome because of its underlying editorial philosophy that life for the women of America can be far finer and deeper and richer if women can so organize it in the home itself as to enjoy all the blessings that our new age offers so abundantly.

Grandmother was perforce a drudge much of her time on this earth. But there is no earthly reason for granddaughter's drudgery. For granddaughter in every corner of the modern world a thousand liberators are at work. In the laboratories of scientists, on the floors of great factories, in the drafting rooms of engineers, men and women are working that she may be free. The ingenuity of the minds of countless researchers, the far and hazardous voyaging of traders, the art and inventiveness of decorators and designers and all other creators of beauty come together in the rooms of granddaughter's home to give it dignity, utility, and charm.

When we speak of the "new industrial revolution" we think of mass production, of smoking stacks, and high tension towers. But the end product of the new industrial revolution is, as often as not, a free woman setting out towards new horizons.

A full description of these chintzes will be found on page

An expert teaches

Curtain Making

by JANE WHITE LONSDALE
Member of the Decorators' Club

It is quite easy to avoid the bothersome pitfalls in making curtains at home if one follows in the footsteps of a professional. The author, a decorator of wide experience, gives detailed instructions and next month will tell how to make slip covers and show more new, inexpensive chintzes.

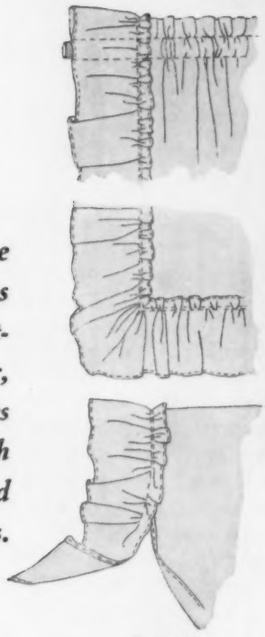
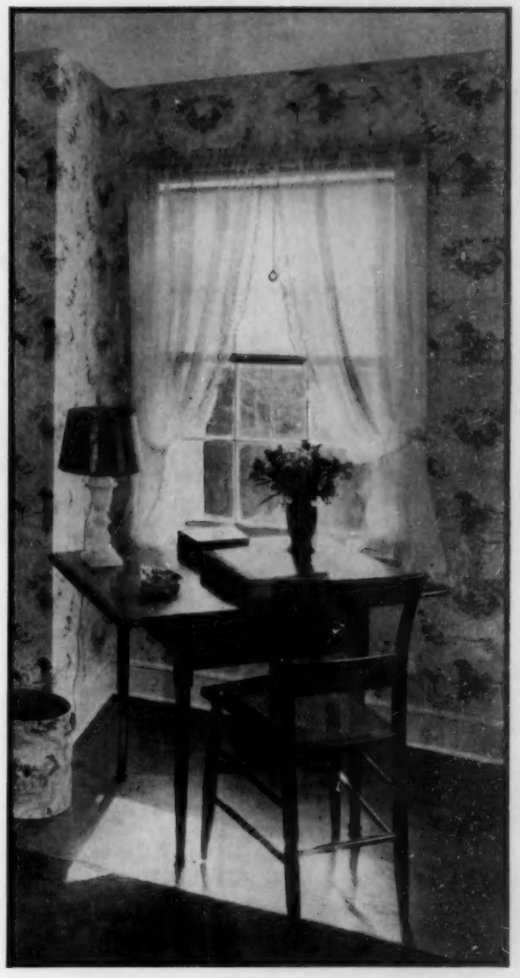


PLATE 1



The charm of organdie curtains lies in their simplicity of style and hence they should be used alone—never with over draperies of valances. As shown in the drawings, the ruffle is stitched on the right side of the curtain over a narrow hem which has been turned onto the right side, leaving a smooth finish underneath

DRAPERIES and curtains must look professional to be really smart and attractive, but often the simpler types may be produced at home if you have a flair for sewing and are willing to take those infinite pains which are allied to genius in any line of endeavor.

The type of your room sets the standard for the style of curtain to be used in it, but you must also consider your own preference as to whether it is to be formal or informal, the color scheme you will use, and what material will best produce the desired results. Upon these decisions depends the style of the curtains you are planning. As it is nearing spring let us decide to use simple, informal curtains made of scrim or organdie, and for our one touch of formality in the dining room having a scenic paper let us use silk gauze or celanese.

Of course in an article on the subject I must be general, but I do want to help you to chart your curtain channel so that you will avoid the reefs, and consequently the wrecks, in curtain making which I have seen occur only too often.

A good general rule is that with figured walls, or with walls hung with a number of pictures, we use a plain material, either of one color, or in a combination of plain colors, or simply striped; with plain walls, or those with striped papers, figured materials may be used.

Next consider the style best suited to your room, with due observation of your preferences but not obstinacy about them, as often what you like may be in good taste, but for the problem in hand, you must be governed by established rules.

In choosing a design, if the room is small or medium be sure the design is not too large. On the other hand, if the room is large, the pattern should not be small or spotty. Try to choose what best suits the room in every way.

With these decisions made our first step will be to measure. If you will glance at Plate 4 you will understand the points I wish to make. *Accuracy* must be your watchword if you want your home-made products to look professional.

FOR glass curtains you must measure on your trim from the rod, or the exact spot where it should be installed to just clear the sill; for over draperies you measure from the rod to the bottom of the apron (which is the flat molding under the window sill) or to clear the floor by one inch. These are the universal rules which all decorators follow for the correct length of draperies.

To these measurements you will add whatever additional may be re-

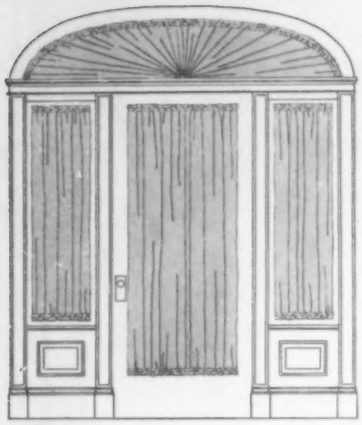


PLATE 2

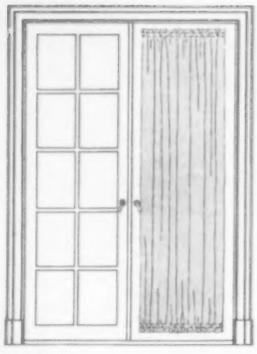


PLATE 3

PLATE 4

For front doors or French doors the frill-top curtain, made the same both top and bottom, is the appropriate thing to use (Plates 2 and 3). Details of the frill top are shown in Plate 6

quired for turns and hems, depending upon the type of curtain you may be making. If you are using material with a definite figure be sure that you center some part of your design, and measure carefully so that you will repeat this particular unit in the identical position on each half of the curtain you are cutting out. Never split narrow material, it is better to use inexpensive fabric, even if it is only scrim, and to have it full enough than to employ better material and have it look skimpy. Even if you do not wish to go to the trouble of putting your draperies on traverse cords do make them so they look full enough to meet in the middle.

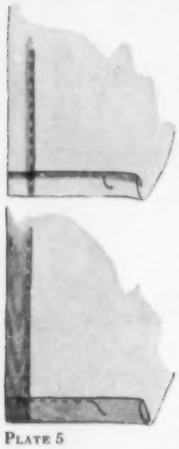


PLATE 5

PLATE 6

The width of your window should help you in selecting your material. In a plain or striped material you do not have to be so careful about matching the design. But, in the case of figured material, if you have the window of average size, single width is adequate, and by single width a decorator means fabric which is from 28 to 39 inches wide. For smaller windows we use narrow goods if the design will cut to advantage, otherwise it is best to choose plain or striped material.

On the other hand, if you have extra large windows, particularly if your curtains are to draw, you must use double width material, by which I mean material about 50 inches wide. Sometimes we have to use two widths even of double width material and very often at least one half a width is added to each side of that to make up the required amount if the curtains are to meet. If plain material is used the problem of matching a pattern need not worry you, but if you have a figured material every care must be taken to have the pattern match absolutely.

Plate 4 indicates the correct length for glass curtains and over draperies. For details in making the hem on the inside edges and bottom of the glass curtains see Plate 5. To produce a moiréd effect make the first turn an inch—the full width of the hem

As I have stressed the point of not making your curtains too skimpy I want to warn you against using a too over-dressed appearance in your draperies. Do not give the impression that you bought a remnant and did not wish to waste an inch.

Let us first consider a frill-top glass curtain, of scrim, or some similar material. After you have measured accurately you must plan your cutting to allow for an inch hem on the inside edges, and for the same on the bottom. Some people like a deeper hem on the bottom, but I do not, as an inch on both the inner edges and the bottom hem when mitred at the corners makes a beautiful, professional finish. Particularly if you use my method make the first turn *an inch* instead of the conventional narrower one. Then there are no little threads showing through, and the crossed fabrics form a moiréd effect (note lower cut, Plate 5).

My suggestion is that you have your material shrunk first so that when the curtains are made they are finished once for all and you do not have to change or adapt them after subsequent trips to the laundry or dry cleaner's. Of course when fabric is sent straight to a decorator's workroom it cannot be shrunk unless it is

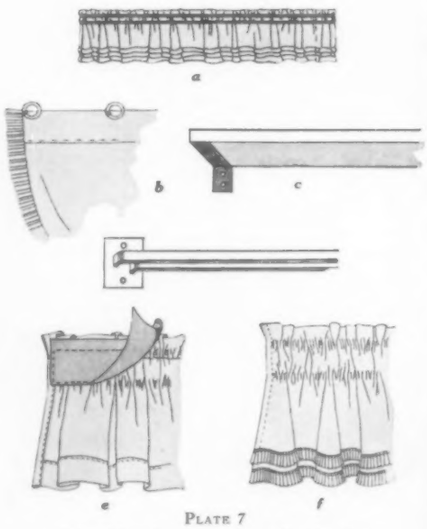


PLATE 7

The shirred valance is really the simplest for the amateur to make. Details of front and back are shown in "e" and "f" above. The valance may be hung on a valance board "c" or it may be made with a casing and hung on a double rod "d". Attach rings to the side draperies as in "b"

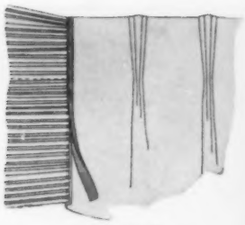
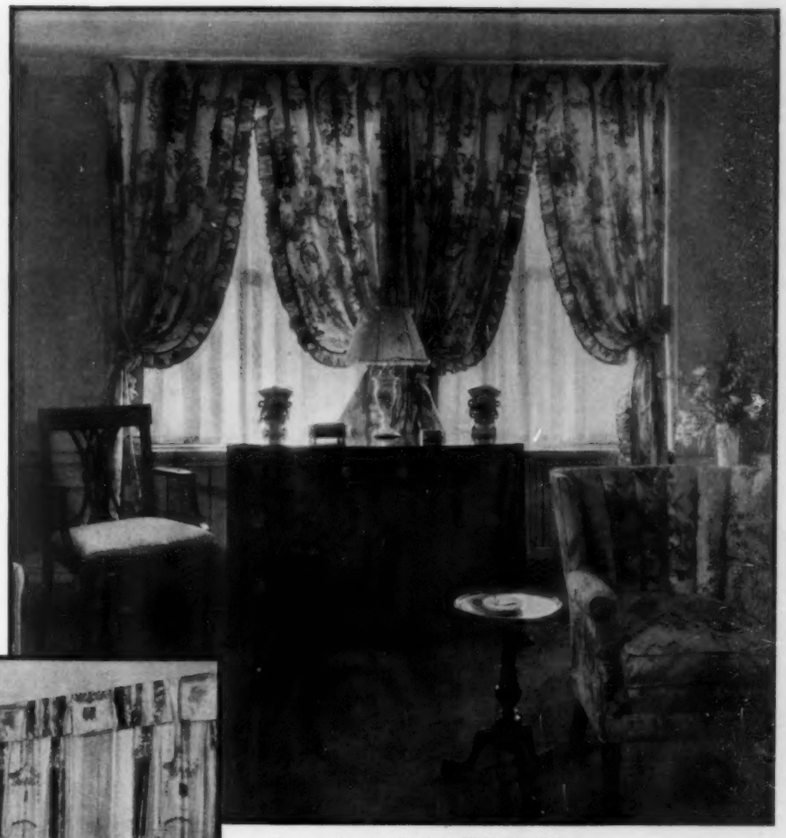


PLATE 8

An unlined chintz curtain with French heading is quite suitable in a room that demands a bit more formality than an organdie curtain can give. A close-up of the top with the French plaits is shown in Plate 8

sent to a professional for the work to be done, and this is advisable; but where the problem is for only a few pairs of curtains to be made at home I do urge strongly that the material be shrunk first. However, if you do not wish to do this you should allow an extra inch for shrinkage and thus avoid future trouble.



All rooms decorated by Jane White Lonsdale

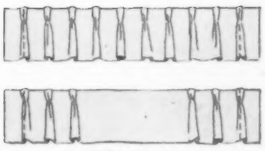


PLATE 9

In making a French headed valance the plaits may be evenly spaced or arranged in groups, taking full advantage of the beauty of the chintz pattern. A pleasing variety may be obtained in this way

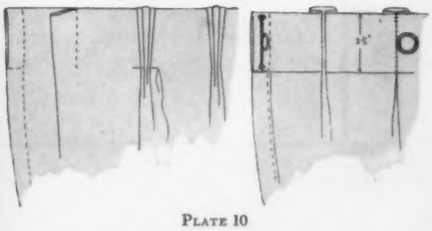


PLATE 10

A simple frill-top glass curtain is used on this window in connection with French headed unlined chintz curtains. Plate 10 shows the process of securing a French plait, the position of the ring on the hem, and the type of bar and ring to be placed at the hem junction

Let us say that your measurements require 58 inches from the rod to a spot where the curtains will clear the sill. Then add one inch for first turn, another inch to make the inch hem on the bottom; at the top make your first turn two inches and your hem two inches, this hem is divided equally making an inch casing and an inch for your frill top. Therefore, in cutting for 58-inch curtains when finished, you allow six inches. *Always* cut on a drawn thread for scrim or other sheer glass curtain material. First you draw a thread to straighten your material, then you measure 64 inches and draw another thread and cut as many of these 64-inch strips, having drawn a thread each time and cut carefully on said drawn thread until you have sufficient to make the required number of curtains desired. You also must remember to cut off your selvages, and for this threads also must be drawn. For the two outer edges just have a hem of about $\frac{3}{8}$ of an inch. For doors, front or French, whether between rooms or leading onto terraces, the frill-top curtains made the same both top and bottom and attached to the door with rods are what you should use irrespective of material, provided it is suitable glass curtain material. See Plates 2 and 3 on the opposite page.

For side lights in (*Continued on page 40*)

Give a thought now to

Chrysanthemums

by C. E. F. GERSDORFF

WHEN planted in April as young pot plants produced from rooted cuttings, or split off from old clumps to single stem sucker plants, the hardy types of the Chrysanthemum can be had in all their glory of autumn bloom this same year. Intelligent selection of varieties may see a season extended well through Thanksgiving Day, and in some favored localities, which are visited by balmy weather almost to January, even later blooming ones may be grown with marked success.

In Colonial gardens these were known as Artemisias, perhaps because their bruised leaves exhale an odor similar to that of the true Artemisia or Wormwood. They are the best autumnal type of flowers handed down to us from the old-time gardens, and the most resistant to frost and chilling winds. Even after several light falls of snow, in sheltered positions it is sometimes possible to cut uninjured clusters; and for weeks after they fail to pass muster as cut flowers, good mass plantings give life and color to the garden. Nothing else in our outdoor flora can, almost unaided, so long stave off winter desolation.

Good taste requires that the vivid colors in early blooming varieties should be grown in colonies or masses by themselves, but the white and the late-flowering ones form good backgrounds for plants of lower stature. Their fine thick foliage makes a good screen or background, and their own blossoms spring into fullest beauty when the earlier flowers are gone.

A border of these plants on the south side of a wall or hedge remains bright several weeks later than one less protected and it is here one would plant the later and very late flowering varieties to have them in bloom for Thanksgiving or later, weather permitting.

A prime necessity for success with these plants is a soil that is deeply dug, loose, full of humus, and very heavily fertilized with a good plant food, and in addition feeding once per week via the liquid manure route up until the flowers begin to show color, when fertilization must cease. Cultivation at best must be shallow and can be obviated by a heavy peat moss mulch which has the additional advantage of conserving moisture, which must be supplied when the rains fail.

IN THE old-time garden the most popular types were the Pompon and button types, others being practically unknown. To-day we have these types too, but in addition Singles, Semi-doubles, and larger Aster-flowered Pompons, with a further enlargement as shown in the early French types which approach, with a little care in disbudding, in size the large greenhouse sorts. Color range in all the types is wide, making it possible to carry out almost any color scheme—real blues are about the only color missing. Usually when discussing a type of garden flower it has seemed advisable to recommend certain named (*Continued on page 65*)

A charming group of furniture for comfort: open fire for warmth, good light to read by, and a little table for cigarettes and ash trays

Richard Averill Smith

The Comforts of Home

by MARJORIE LAWRENCE

In America, we pride ourselves on having enriched the English language by the addition of a large and quotable vernacular. Probably no other phrase which we have coined has less basis in fact than "all the comforts of home." Comfort, in a literal and detailed sense, is an absent quality in only too many homes whose proud owners have lavished both time and money on their interiors.

Fortunately for most of us, money plays only a small part in establishing comfort as the keynote of a home. Careful consideration in planning and arrangement is what really counts. We have visited a luxurious apartment with lovely old brocades and priceless antique furniture that was positively unlivable. The ensemble pleased the eye but the first impression could not atone for the subsequent discomfort. The chairs were stiff and straight and they were set about in a rigid and symmetrical scheme. Heaven help the innocent visitor who disarranged the plan! A gorgeous old writing table stood as far from the windows as it was possible to place it because this happened to be the most prominent spot in the room.

We have stayed at a little country cottage whose complete furnishing could not have cost a tithe of the money which went into any one room of this apartment. Yet here we have revelled in the supreme joys of bodily comfort for hours on end. We do not deduce from this that inexpensive homes are comfortable while expensive interiors are uncomfortable. We only reiterate the statement that the recipe for true comfort is wise expenditure and careful planning.

A telephone at the bedside is not only a great convenience and step saver but gives one a feeling of safety in an emergency

Comfort, like your guests, should come in at the front door. There is nothing in the world more aggravating than a camouflaged or hidden bell. Yet, many entrances have one which is extremely difficult to find. If you boast a knocker simply as an old-world touch, your bell should be sufficiently conspicuous to be seen unless you are content to rely solely on the services of the knocker. A foot-scraper is a device that is absolutely essential in a country house. It need not be an ugly wire door mat to be serviceable, but the presence of something of this sort is a great relief to the conscientious guest, and a help to the children of the household. There are many types available.

Once inside the front door, the immediate problem is a

Samuel H. Gottscho

Whenever possible a desk should be placed near a window but not in such a position that the occupant must face the light. Residence of Dr. Frederick V. Rockwell, Norfolk, Connecticut, Taylor & Levi were the architects

This little poudreuse could easily be put in a hall closet for the convenience of the feminine guest. It adds distinctly to her comfort to know how she looks before entering the living room

coat closet. If your house or apartment is without one, a simple solution is found by placing an old-fashioned standing clothes rack behind an attractive screen. If your hall does not include a mirror in its decorative scheme, there should be one on the inside of the cloak closet door, or else behind the screen, if no closet exists. It adds distinctly to the comfort of the feminine visitor to know just how she looks before she enters your living room.

Everyone realizes that a ground-floor washroom is a great asset in the home, but many houses are not planned to include one. It is often a real investment to transform a capacious closet into one of these little rooms, and a good plumber will suggest fixtures that fit in an incredibly small area. However, if this expenditure is not possible, although the closet space exists, it may be utilized by creating a charming, tiny powder room. A dainty paper on the walls, proper lighting, an attractively draped dressing table, which may be built in, and a bench or stool are the inexpensive details of transformation. First impressions, even in houses, are important, and a smart little powder room provides comfort and atmosphere simultaneously.

In the matter of comfort in your home, the living room has the largest rôle to play. In the majority of cases, it is here that the family spends the greatest part of its time and casual visitors will gain their impression of your home from this room.

If you have old furniture which is really comfortable, however shabby, thank your lucky stars and treat it with the utmost respect. Smart slip covers, new upholstered coverings, the judicious admixture of one or two good purchases will transform even the ugliest heirlooms, provided they are fundamentally "sit-able."

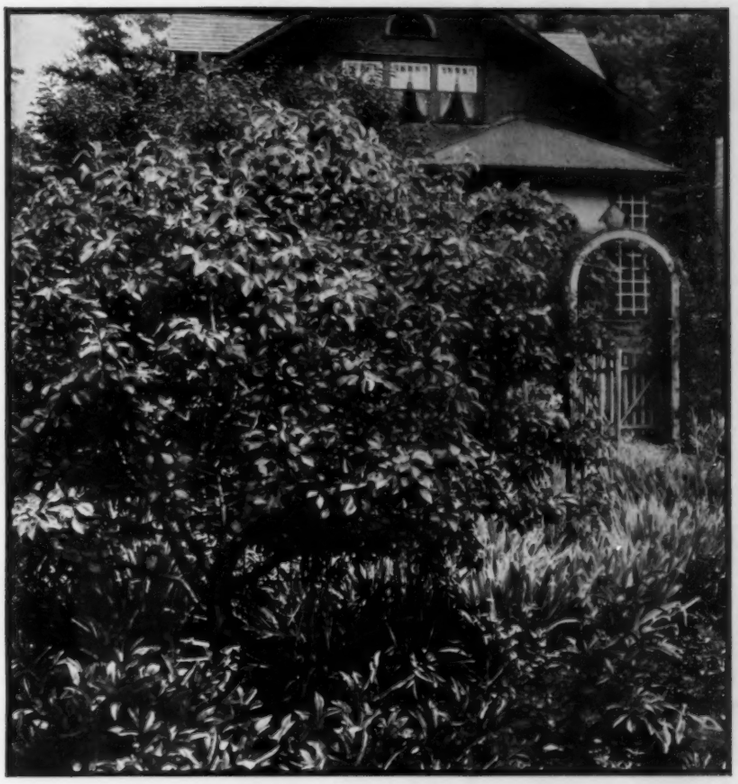
When you are buying new furniture, the thought of comfort should be uppermost in your mind, however alluring the displays you see. For instance, older people with Victorian backbones are rarely, if ever, at home in low-slung, rakish contemporary furniture. If you have reached years of discretion, try to remember that fact when buying your household belongings. If there is an older member in your family group, see that there is a living room chair which is suitable.

A full-length couch is a really important piece of furniture in any living room of sufficient size to accommodate one. This, of course, is not necessary if there is an extra den or room for lounging.

So much has been written on the subject of furniture arrangement that it is surprising to find the fundamental laws ignored in many living rooms. A comfortable grouping of chairs and sofas is essential to the easy social atmosphere which is the goal of every hostess. In a large room, there should be several conversational groups, placed with an eye to comfort as well as decorative effect. In a small room, one focal point, such as the fireplace or a group of windows, will provide the nucleus for your arrangement. Nothing is more conducive to strain and stiffness than a room in which chairs are set primly along the walls, with a big table placed in the middle of emptiness.

Tables, by the way, are very necessary to the comfort of most people. The allure of an easy chair is multiplied tenfold when it is flanked by a stand holding cigarettes, ashtrays, a lamp, and, perhaps, the latest novel. This does not mean that an assortment of little tables should be loaded with gimcracks and breakables. In such cases, they become nuisances rather than comforts.

A nest of tables is a good selection in many smaller rooms since the little tables need then be pulled out only when required. A rack for newspapers and magazines is a great aid in keeping the living room in order. (*Continued on page 48*)



The full-grown dwarf tree is in scale with the average garden. Used as part of the general planting scheme it gives beauty of spring bloom and colorful fruit in fall

Dwarf Fruit Trees

for the small lot

by FREEMAN HOWLETT

NOT so long ago we should have been immeasurably amused at the idea of begrudging an Apple or Pear tree its space, but at present few people can afford the pleasure of cultivating their own fruit trees.

The dwarf tree helps to solve the problem for a garden of moderate size because it adjusts itself to closer quarters and because it tends to come into bearing at an earlier age than the regular orchard trees. Residents are no longer as permanent as they once were. The sooner a fruit tree can be prevailed upon to bear, the greater is the likelihood that the planter will avail himself of the fruit. Moreover, the suburban gardener is not so much interested in total quantity as in the *quality* of the fruit. Dwarf trees, as might be expected, produce less fruit, but it is of as good quality as that grown on normal sized trees. The facility of caring for the trees also adds to their desirability. Only with a mature dwarf tree might a stepladder be necessary to carry out such operations as pruning, spraying, and picking.

Dwarf trees of the Apple and Pear have been grown for several centuries in Europe and for over a hundred years in America. Dwarf trees abroad are popular not only for their fruit but also because they form such a uniquely decorative part of the garden. In this country, however, the utilitarian motive has largely prevailed in the growing of fruit trees.

The most common (and by far the most important) means of dwarfing fruit trees is propagating them on dwarfing roots which restrain top growth. Two types are commonly used for the Apple. One is called Paradise and produces a tree of minimum size—a full dwarf. The other, Doucin, produces a tree which will grow to half the standard size. The Jonathan dwarf Apple, for example, is produced by budding or grafting a Jonathan scion upon one of these classes of slow growing roots. The Pear tree is dwarfed by grafting the desired variety on a type of Quince root grown in France. For the stone fruits the Sand Cherry has been found to be a satisfactory dwarfing root.

Fruit comes to the dwarf sooner than to the full-sized tree, which is something to be thought about. (Delicious Apple in bearing. Courtesy of Storrs & Harrison Co.)

THE particular roots do not allow the tops of the trees to grow as fast as is permitted by the roots upon which the standard sized trees are grafted. Since the annual top growth is always less, the food material produced by the leaves aids in the formation of flowers rather than in the production of new leaves and shoots. An earlier bearing than is achieved by any but the most precocious of the standard trees is thus brought about. In fact these dwarf trees may have a few flowers the year after planting but due to the small size of the tree the fruit produced is insignificant.

The quantity will increase gradually until by the fourth year one half to one bushel of fruit may be expected from dwarf Apple trees on Paradise roots and a like quantity from the dwarf Pear. The half-dwarf Apple tree on Doucin roots will not come into bearing as early as the full dwarf tree, but will eventually produce more fruit. Mature dwarfs of the Apple should produce under favorable circumstances from four to five bushels while the dwarf Pear should have at least two bushels.

Dwarf trees of the stone fruits may, for the first two or three years after planting, make as much growth as trees propagated on standard non-dwarfing roots. Afterward they make less growth annually and become true dwarfs. Trees of the Plum, Sweet and Sour Cherry should produce at least a quarter of a bushel of fruit by the fifth year while full grown trees will produce a minimum of one bushel. Dwarf Peach trees should have two bushels on full grown trees.

Although the dwarf tree is small, (*Continued on page 55*)

Dwight James Baum, architect *M. E. Hewitt*

The use of ivy and other decorative plants and flowers in this sunroom helps to preserve the feeling of summer throughout the year

Modern Sunrooms

Make for healthful living

by DOROTHY STACEY BROWN

WITHIN the last few years doctors and scientists in Switzerland, in Denmark, and in these United States have been rediscovering what primitive peoples knew hundreds of years ago—that there is no medicine equal to direct sunlight. If we took this very seriously, we might retire to an Alp, or join a Nudist colony in Germany or on an island in the Seine. As few of us have the leisure necessary, however, it is fortunate that doctors in both northern and southern states are proving the North American sun strong enough to cure tuberculosis, drive away microbes, and build up our resistance to all kinds of disease—if only we will give it a chance.

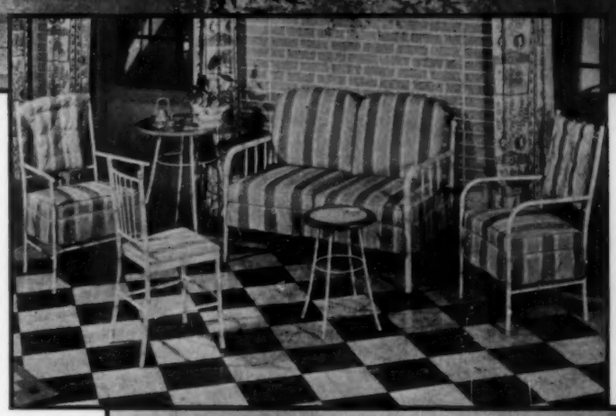
The result of all this is that the sunroom is becoming one of the most important parts of the house; we have many-windowed rooms, glassed-in porches, and open terraces in such numbers that our search for the sun has inspired manufacturers to make sunfast draperies, gay, comfortable furniture suited to a whole family playroom, and glass that transmits the ultra violet rays. The well-planned sunroom offers a perfect nursery where the children may spend a whole morning in their sun-suits, in the afternoon it is inviting for a nap or an informal cup of tea, and even at night, when the sun has deserted it, the bright curtains and furniture make an ideal game room.

The sunroom that is really an annex of an inside room, and is connected with it by a large door or an arch, requires special care in decoration. It must suggest fresh air and gardens, yet also look well from inside, appearing as a brighter, less formal corner which may be used as a part of the inner room when extra space is required. The right choice of colors is most important in achieving this effect; a safe plan is to choose one or two of the warmer tones used in the adjoining room and have these repeated in the sunroom draperies and upholstery, not

Mrs. Harry Hamlin, East Hampton, L. I.

M. E. Hewitt

If in transforming an open porch into a sunroom some of the glass used is the type that admits the ultra violet rays of the sun its healthfulness will be greatly increased



Sunporch furniture must be sturdy and able to withstand dampness. The pieces at the right are of metal in bamboo style (Simmons Co.)

Sunporch fabrics now are sunfast and moistureproof and may be as colorful and exotic in design as personal choice dictates (Ficks Reed Co.)

necessarily matching the shades, but using brighter, more striking tones in keeping with the character of the room.

No matter what the type of our sunroom may be, it should keep the feeling of summer all the year round, not only through its flowers and plants, but by a gay, vigorous use of pattern and color. Instead of conforming to the usual rule that cool colors are best for sunny rooms, the effect will be far more successful if we use warm tones, accenting them with a touch of some colder one, as turquoise green.

In any proper sunroom so much space is taken up by windows that the choice of curtains demands especial care; they are likely to be the keynote of the color scheme and when drawn at night they will cover most of the background. Of course all draperies must *(Continued on page 56)*

What this country needs—

A Good $5,000 House

Actual working drawings and specifications of the four $5,000 houses published on the next four pages may be had for $1 a set ($4 for all four) by writing to The American Home, Garden City, N. Y. This data will be sufficient for your contractor or builder to estimate and build from.

As we mentioned in our last issue, sentiment at the President's Conference on Home Building was very definitely in favor of the $5,000 house. Since that time other agencies, including some of the leaders in the building industry, have taken up the cause of the $5,000 house and The American Home is desirous of giving this movement its proper share of publicity, since we believe that from this section of the building field may come many important developments in what we consider the brightening future.

The four houses illustrated on the next four pages are designed by Howard & Frenaye, a well-known architectural firm in New York, who customarily design much larger houses than these. The houses are of such excellent style and the plans so workable that they are being erected by the Eastern States Construction Company at Great Neck, Long Island, fifteen miles from New York. The tabulated costs of building each house are presented on this page and the general specifications, which were used by the Eastern States Construction Company in building the houses, are given at the end of the article. While it is not necessary to point out the very obvious merits of a $5,000 house in meeting the needs and requirements of a large section of the American public, we should like to call the attention of our readers to the desirability of such houses as week-end lodges for city dwellers and summer cottages for the typical American family.

As a matter of fact, the houses are being built in an attractive section of the well-known north shore of Long Island for college men and professional men who prefer country living, in homes of their own, to paying rent for city apartments.

At the present time there are practically only two ways for people of moderate means, whatever their background or upbringing, to live: either by renting a two- or three-room apartment in the city, or in a suburban district, or by renting or purchasing an antiquated house of a size that is extravagant to operate and of an architectural conception that is, to say the least, unfortunate. Of the two the modern tiny apartment seems preferable because of its efficient plan layout, its cleanliness, and because the tenant can lock his door and go away when he, or she, wishes, having no worries about the apartment in the meantime. In spite of its low rental, the antiquated house is in constant need of upkeep and due to its generally poor planning is a source of effort and pain to the housewife unless it has been well remodeled.

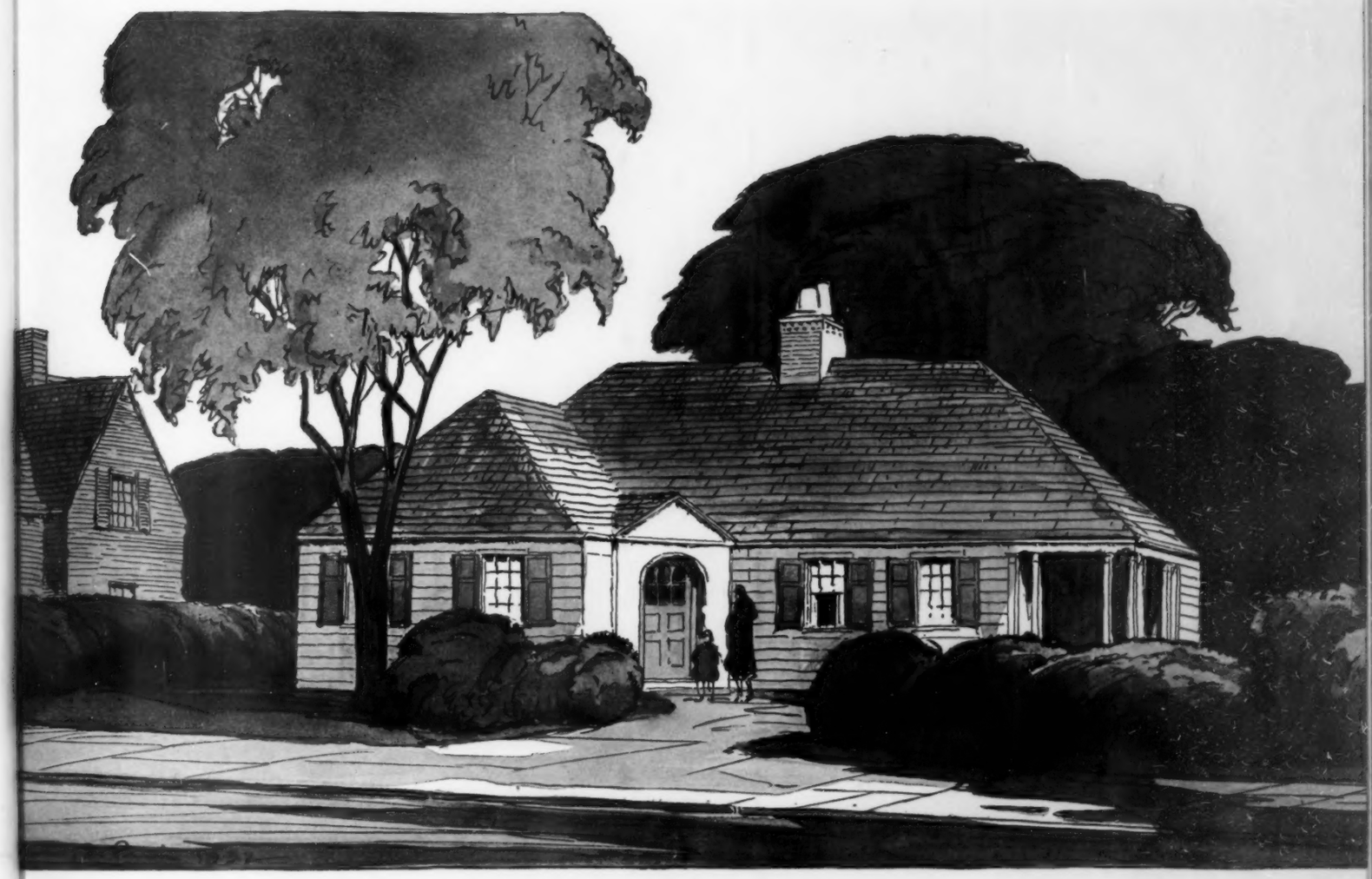
Generally speaking, there is inherent in the average American a love of home and a genuine understanding of the satisfaction it brings. We love the sense of ownership of tangible property. We love flowers and grass and the feeling of being able to stretch our arms without restraint. We like to have privacy and we like to be surrounded with individual things of our own good taste. The apartment and the old-fashioned house do not satisfy these cravings. There must be an alternate solution and we believe Howard

Itemized Costs of Building the Four $5,000 American Homes Illustrated on the Next Four Pages

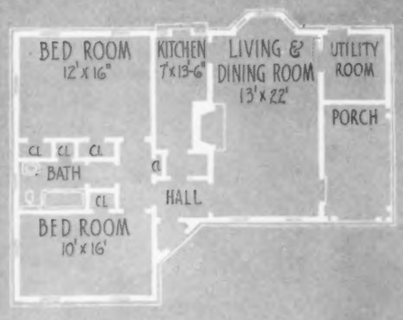
These figures were supplied by the Eastern States Construction Company, which is building the four houses at Great Neck, Long Island, 15 miles from New York. The contractor in your locality, estimating from the working drawings and specifications which may be secured for $1 a set from The American Home, might make a considerably lower price for building these houses since building costs around New York are higher than in other sections of the country.

	COLONIAL HOUSE	ENGLISH HOUSE	SWISS HOUSE	FRENCH HOUSE
Rubbish Removal and Finish Grading	110.00	110.00	110.00	110.00
Excavation	27.50	27.50	55.00	27.50
Masonry Labor (includes Brick, Concrete, Stucco, Composition Wall Covering)	741.00	1034.00	1155.00	706.00
Carpentry Labor	1034.00	968.00	968.00	968.00
Misc. Expense (includes Cleaning Up, Building, Insurance, Rough Hdw.)	148.00	148.00	148.00	148.00
Finish Hardware	55.00	55.00	55.00	55.00
Roofing and Sheet Metal (Copper)	125.00	117.00	139.00	179.00
Rough Lumber	495.00	314.00	360.00	314.00
Finish Lumber and Mill Work	581.00	454.00	451.00	841.00
Plumbing	487.00	438.00	394.00	441.00
Electric Work	103.00	88.00	80.00	93.00
Wood Flooring	150.00	110.00	122.00	105.00
Painting	326.00	326.00	330.00	273.00
Medicine Cabinets	16.50	16.50	16.50	16.50
Light Fixtures	55.00	55.00	55.00	55.00
Composition Wall Covering	250.00	209.00	213.00	201.00
Rigid Insulation	125.00	116.00	132.00	116.00
Fireplace unit	25.00	25.00	25.00	25.00
Kitchen Cabinets without Refrigerator including Gas Stoves and Sinks	275.00	227.00	223.00	227.00
Steel Sash		258.00	251.00	151.00
	5129.00	5031.00	5052.00	5096.00
Heating	305.00	329.00	347.00	296.00
Refrigerators	137.00	137.00	137.00	137.00
Garage	225.00	225.00	225.00	225.00

The above figures include the usual builder's profit of 10% on each item.



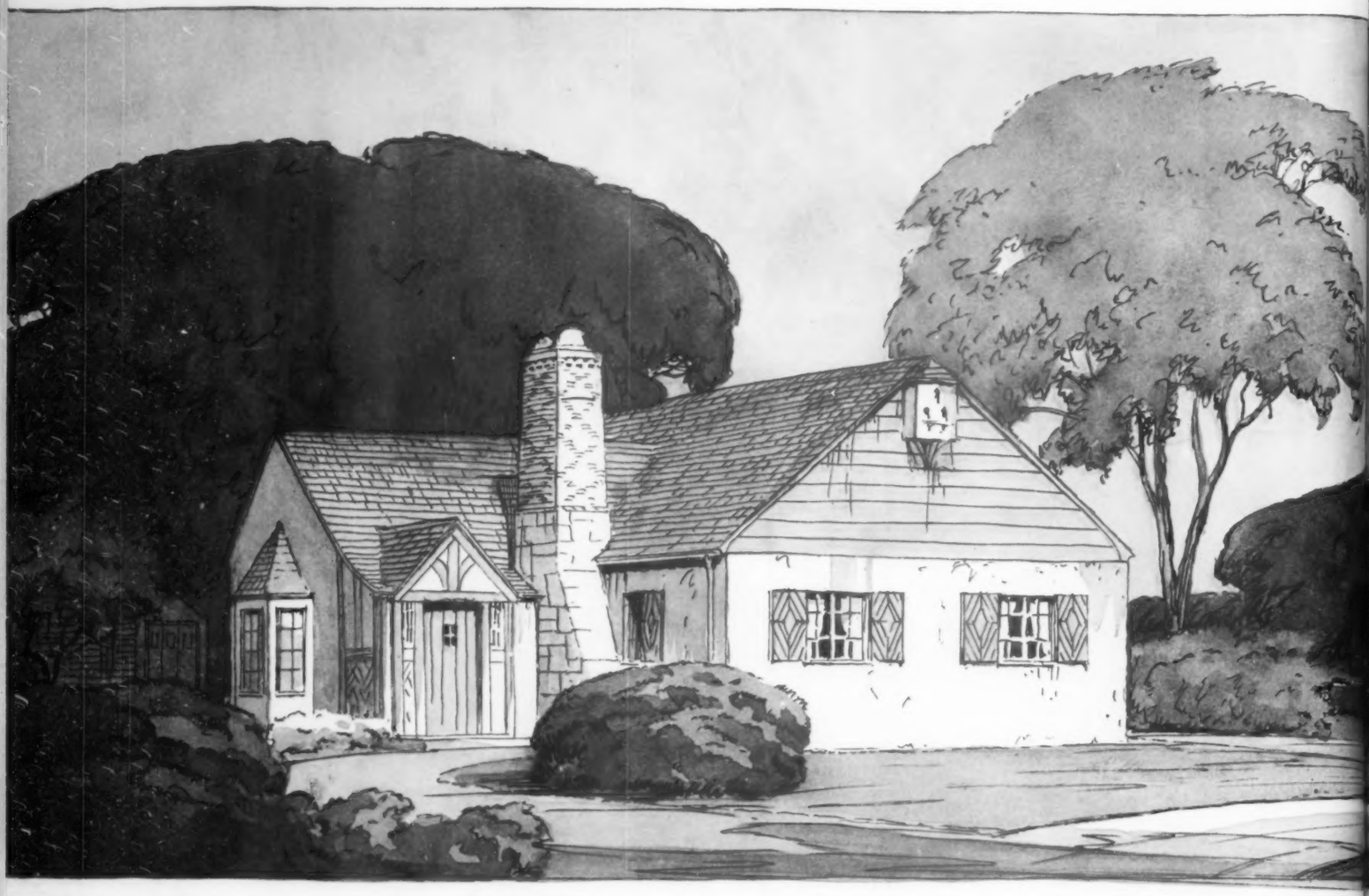
THE COLONIAL HOUSE



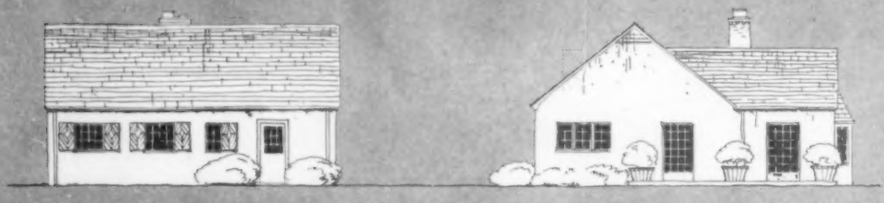
REAR AND SIDE ELEVATIONS

& Frenaye have offered an interesting possibility in the four compact cottages published in this issue. To be sure, there are a legion of small cottages available but almost without exception these are in bad taste and are blights on our countryside. If architects in general would give time and study to the design of the really small house our landscape would be thrice blessed.

The financial problems are the first to interest a prospective builder of a small cottage. Although he knows construction costs are at the lowest point they have ever reached he wonders if he should take the "risk" of building. If he outgrows his small house or no longer wants it can he dispose of it without monetary loss? Well-designed and well-situated small houses are the easiest type of real estate investment to dispose of. There are always many young married couples and many elderly people who have similar needs who are seeking this type of residence. The second important financial problem before



THE ENGLISH HOUSE



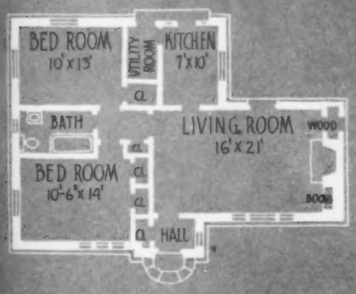
REAR AND SIDE ELEVATIONS

a prospective builder is the matter of maintenance costs. What will the upkeep on this house be? A budget, printed at the end of this article, gives a rough analysis of upkeep costs for our compact cottages.

In renting an apartment it is exceedingly difficult to find a nice two or three room suite where the monthly rental is less than $22 per room, a total rent of $44 to $66 a month. And yet the budget analysis (at the end of this article), taking into consideration the subtraction of the item of second mortgage amortization, shows the small cottage to cost approximately only $36. In our budget we have assumed property of 75-foot frontage and 100-foot depth and these sizes of lots are obtainable in suburban districts of New York City, Philadelphia, Chicago, etc.

How much more one obtains for less cost actually! The apartment tenant must pay at least $8 a month for garage facilities for his car. The cottage owner has his own garage as part of the whole. And with it all is thrown in the satis-

THE SWISS HOUSE



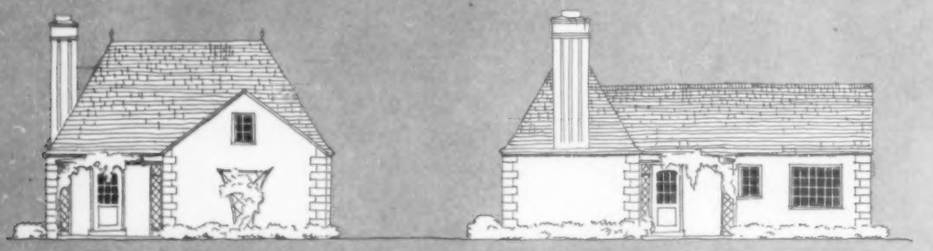
REAR AND SIDE ELEVATIONS

faction of all those emotional feelings one normally possesses in owning one's own home no matter how humble. In the apartment it is rare to find that all the important rooms have cross draft, two or more exposures, proper ventilation, and complete privacy from neighbors' noises.

There are several features in regard to the form of construction and the equipment of THE AMERICAN HOME houses that set them apart from the average type, features which bear directly on their economy of construction and efficiency of arrangement as well as their cost of upkeep.

There are no cellars whatsoever. This feature would seem to some people to be undesirable from a health standpoint. But the fact is the many new technical developments that have entered the building field are of service here as elsewhere. Not long ago the waterproofing of cement was unknown; concrete always admitted moisture, but that condition has been remedied. The entire area under these houses is made dampproof with a waterproofed

THE FRENCH HOUSE



REAR AND SIDE ELEVATIONS

concrete slab resting on the earth. The foundation walls have been waterproofed, too, and there is no chance of dampness reaching the wood cottage floors in any way. To make assurance doubly sure, the entire slab is top coated with tar and the floor joists and underflooring are coated with creosote to prevent dry or wet rot, or the possibility of damage by termites, those ants that destroy so many houses in the South. Cellars to-day are not used, as formerly, for perishable storage and, unless properly cared for, they may become repositories for trash. The cost of excavating for cellars is also, of course, a fairly important item.

In our $5,000 houses all the rooms are of good size, all the living rooms have fireplaces and the well-placed windows and doors afford pleasant exterior views. The kitchens are efficient ones, laid out for a minimum of waste space and for the convenience of the housewife who will undoubtedly do her own work without a maid's assistance. Vermin-proof cabinets, storage spaces, (*Continued on page 38*)

A Budget Guest Room

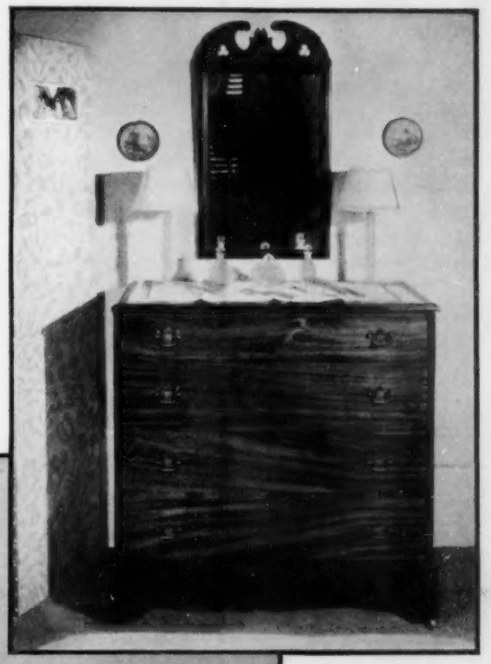
by SALLY SALTONSTALL

YOU have been following the furnishing of our budget house, we hope, through the description of the living room in the October, 1931, issue, the dining room in the December number, and the master bedroom in February of the current year. We come now to the second bedroom which may be for a guest or a child, as the exigencies of the house demand. The amount allowed for this room in the Department of Commerce figures which we are using to determine our budget is $420. Our total cost is $419.65, and it includes several luxuries not comprised in the government budget as prices are lower now than they were when that was compiled. These are given in the price list.

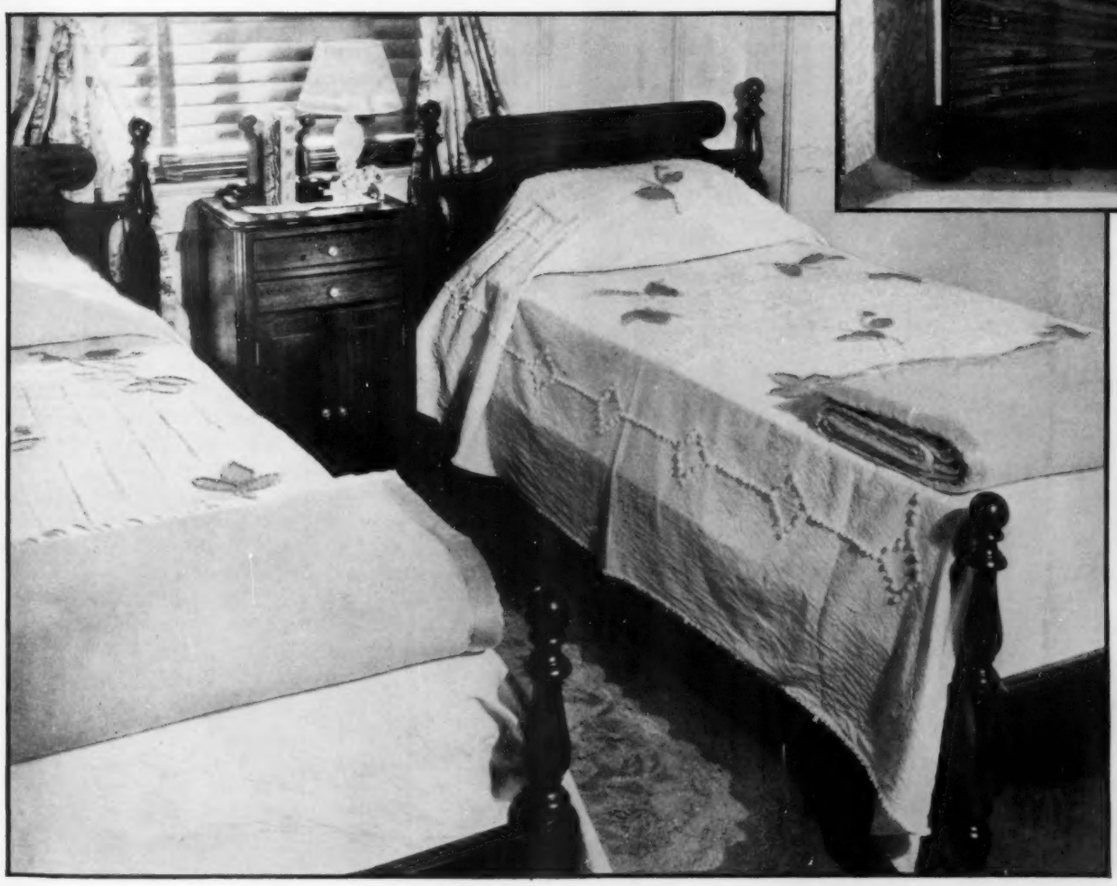
This is the fourth in a series of articles in which our decorating staff furnishes an imaginary house on a budget worked out by the Department of Commerce. A price list of these furnishings appears at the end of the article.

This room was arranged in coöperation with the staff of "The Home that Budget Built" at John Wanamaker's in New York City, and we believe the excellent designs which have been chosen will surely appeal to every woman who is furnishing a new bedroom this spring.

The walls in our budget room have been divided into spaces by moldings, the inner panels and their outlining moldings being painted a deep cream with the surrounding space and



The bureau is plain and well proportioned and above it hangs a mirror with simple mahogany frame with cut-out design at the top. The twin beds have spreads of unbleached cotton with design in candlewicking and painted flowers. Between the beds stands a booterie which has all the usefulness of a night table



The boudoir chair is upholstered in glazed pink chintz having a cameo design in white, and is finished with a box-pleated ruffle around the bottom and pipings of the same material

other moldings in a lighter tone. This makes a charming background for the dark furniture, gay draperies, and cheerful accessories with which the room is equipped. There is a wall-to-wall carpet of taupe chenille with a couple of hooked rugs, one placed between the beds and the other before the bureau.

The furniture is made of mahogany, or of birch and mahogany, all the paneled surfaces being of the former and the turnings of the latter. It is a good idea to have twin beds in either a guest room or a chamber which is meant for a child, as it makes it quickly adaptable to various conditions in the household when sleeping quarters are necessary for two. The beds shown in our photograph are three-quarters size, and have well-designed headboards and simple turned posts. The budget price includes box springs and good mattresses with inner coil construction, as well as a pair of white goose feather pillows with eight-ounce ticking.

The spreads shown on the beds are of unbleached cotton with a design in candlewicking, and also with flowers which are colored with an oil paint preparation that is guaranteed to withstand trips to the laundry successfully. The blossoms are shell pink in this case, but the spreads may be ordered in flowers of other colors, the leaves are delicate green, and both leaves and flowers are outlined in small candlewick knots of the matching shades.

At the bottom of each bed is a single blanket for an extra covering, and these are of virgin wool, shell pink in color, and bound with wide satin ribbon in a matching shade.

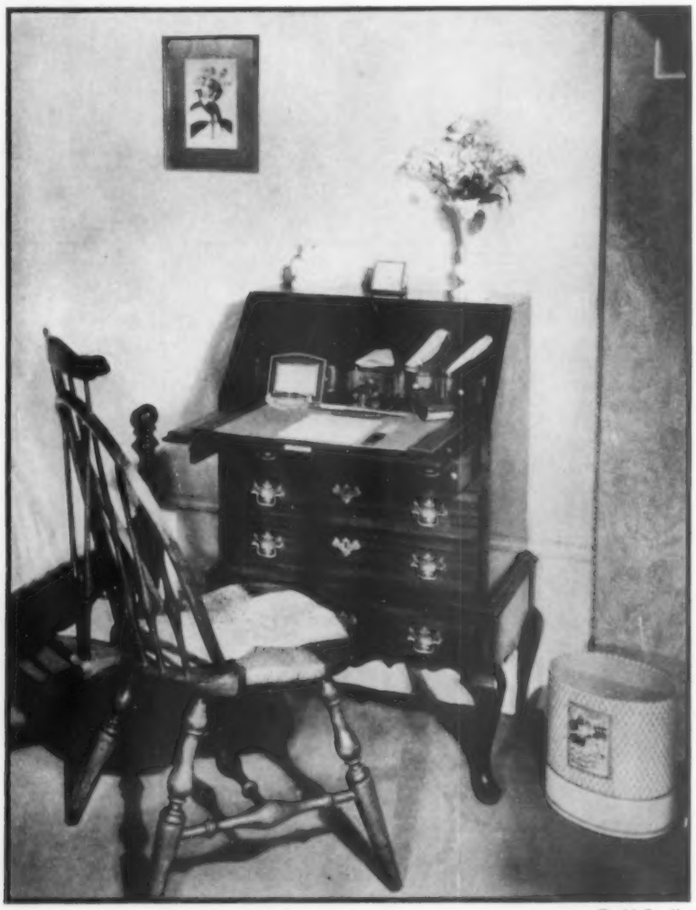
The plain but well-proportioned bureau is 38″ wide, by 20″ deep, and 37″ high, with four drawers. The mahogany framed mirror above it is 18″ x 31½″ and has a simple molding frame with a cut-out design at the top, and an excellent glass. On top of the bureau stands a pair of crystal glass lamps with twisted glass stems which are 9½″ to the bottom of the bulbs. These graceful lamps have dainty shades of chiffon printed in a design of white lace and mounted over pale pink. The charming little scent bottles and powder-box are of the popular hob-nailed glass in plain white, and there is a lovely four-piece toilet set imported from France, with backs of pale shell pink enamel.

THE bureau cover is of natural-colored linen, with a machine button-holed edge and a design in green and black linen appliquéd at the corners. The little cover on the night table matches this scarf.

At the foot of the bed is a boudoir chair in a comfortable shape which would tempt any guest to drop into it with a book and enjoy a restful half hour. It may also be used as a slipper chair. It is upholstered in glazed pink chintz having a cameo design in white.

Between the beds stands what looks like a night table, but it is really a "booterie," with two narrow drawers across the top, and two shelves inside which with the bottom space gives room where many pairs of shoes may be kept, or magazines, medicines, anything you may wish to have at the bedside. This convenient little piece of furniture is 14″ deep x 17½″ long and 31½″ high. On it stands an amusing pair of metal book ends in the shape of quaint peasant figures, and a decorative French china dog, as well as an attractive pewter lamp with a parchment shade.

A desk is provided for this room since every guest delights in finding this convenient piece of furniture in a chamber, or, if the room is for a child, he will be immensely proud of the distinction of having a desk of his own. This mahogany desk is ideal for a small room as it is well designed, having plenty of drawer space as well as five inner drawers and five pigeonholes in which papers, etc., may be neatly kept. Before the desk stands a comfortable Windsor chair, stained mahogany, and having a strong rush seat with wooden corners. This chair is 40″ tall, over all, the seat is 17″ x 17″, and it is 18″ from the floor. (*Continued on page 60*)



A desk is very desirable in a guest room and the one selected for this particular room is ideal because of its size. The Windsor chair illustrated is comfortable for use at the desk or as a separate chair

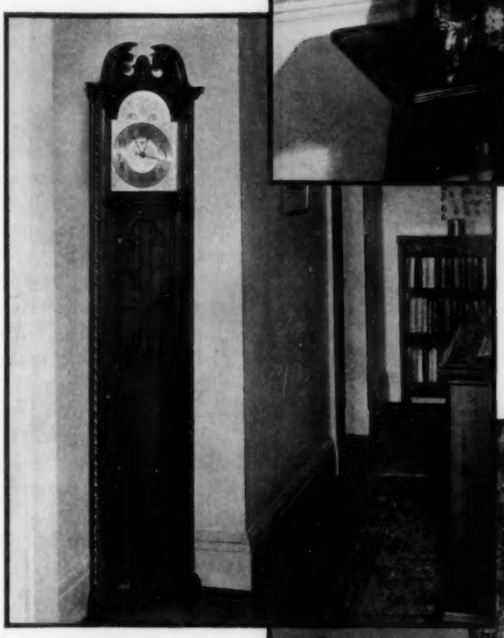
Goold Studios

Heralds of Time

That do perpetual duty

THE old poem that runs, "Backward, turn backward, O Time, in your flight!" seems an anachronism in these modern days when life moves along at such a rapid clip and even the clocks—those heralds of time—appear in modern up-to-date dress or else adopt new, modern mechanism to old, tried and true forms. Thanks to electricity clock winding is rapidly becoming a thing of the past, but clock watching should be on the increase if manufacturers keep designing such attractive cases for our timepieces. With the wide range of designs now available in the shops it is an easy matter to find a clock that will harmonize with its surroundings.

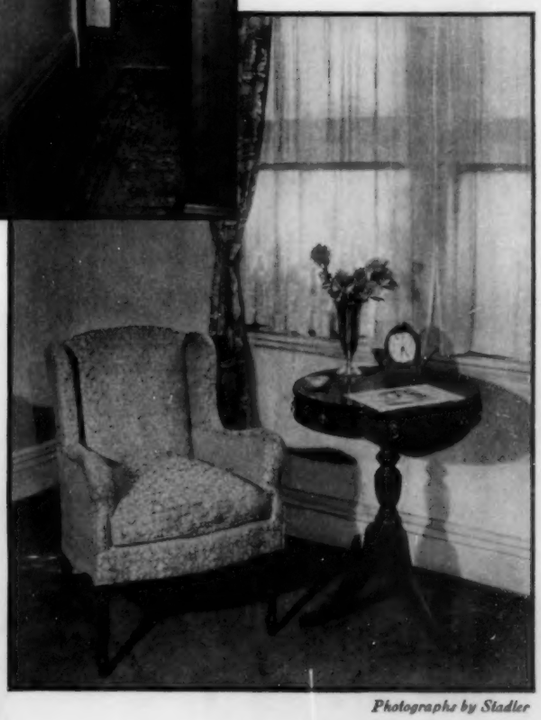
Truly Colonial in design yet modern in mechanism is the electric banjo clock shown above. It is of brown mahogany, decorated with a hand-painted floral design and surmounted by an eagle (Seth Thomas)



Like a friendly sentinel on duty this lovely mahogany grandfather clock stands in a corner of the entrance hall. It has a telechron motor and may be either a silent teller of time or equipped with Westminster chimes. And besides, it has four shelves for books (General Electric "Mayfair")

The electric alarm clock, below, an Early American design, would make a dainty addition to a desk or dresser. It has a bakelite case and antiqued ivory-colored dial with design in colors (Ingersoll-Waterbury "Mayflower")

All photos courtesy of the Budget Home, John Wanamaker, New York



Photographs by Stadler

The charming self starting synchronous electric-alarm clock above never fails to awaken its mistress gently, but firmly, at the appointed hour. Meanwhile, it takes its place among the furnishings of the bedroom without a jarring note. It has a mahogany finish high-lighted with satinwood, and an ivory enamel dial with an alarm hand (Warren Telechron "Alden")

Frozen Foods

A new method of preservation

Science's latest gift to the modern American housewife is one which insures her fresh foods at any season of the year. Quick-frozen fruits, seemingly grown at the spring of eternal freshness, may be had in any climate from January to January.

by DONALD M. TAYLOR

DID you sleep well last night, Winifred?" Marian Martin asked her guest as she took a chair opposite her at the breakfast table in the kitchen alcove. "Or did the traffic bother you?"

"Traffic—was there traffic?" briskly echoed the gray-eyed young woman with the coloring of wind-ruffled days in her cheeks. "Did I sleep? What a question to ask a middle-aged farmhand after keeping her up partying hours past midnight! It seemed like about fifteen seconds after my head hit the pillow it was ten a.m. and the sun was shining in my eyes. Marian, what deliciously chilled orange juice!"

Marian smiled. "I thawed it, Winifred; I didn't chill it," she said.

"You what? Are you lisping bad grammar at your poor old Aunt Hannah?"

"No. I said, I thawed it—'unfroze' it. The dairyman brings us a quart every morning with the milk, frozen solid."

"You wouldn't fool a little girl, would you?"

"Absolutely not. This time of year oranges seem kind of pulpy, so we get this juice that was frozen and stored in Florida last year. It's just about as cheap and it saves me all the work of squeezing oranges. Winifred, I took the edge off my appetite eating a few nibbles with Bert and the children, so if you don't mind I'll order the groceries for dinner between bites. Then we'll get down to the shops that much sooner."

"Go ahead," answered Winifred, putting her orange juice glass aside and turning her attention to a bowl of dry prepared cereal topped with a heavy layer of sliced peaches. "I'll try to eat this baled hay quietly. But where in the world did you get fresh peaches this time of year?"

"They're—Tabor 6404, please—they're from Georgia. They're—This is Mrs. Martin on Twentieth Street. A loaf of whole wheat bread and one of French. Have you strawberries, Mr. Wood? All right, I'll take three boxes. String beans? One carton, I guess, for salad. And some peas and asparagus. A box of each will be enough. A couple of heads of lettuce, please. How much are tomatoes, Mr. Wood? Yes, I'll take a dozen cans. Two pounds of spinach—it's the only vegetable, Winifred, that the children will eat without a scene. And some corn—yes, a couple of cartons. I think that's all, Mr. Wood. Cherries? I must try them, but not to-day." (*Continued on page 43*)

Wm. H. Zerbe

Frozen foods are now obtainable in great variety. They come neatly wrapped and packed in boxes as illustrated here. After being thawed, they are prepared and served just as any fresh food would be

Just read the recipes in Mrs. Gurnee's article—try them —and see if table cooking isn't more than an art. With the genie of the electric wire to assist you it's nothing but wizardry.

Your table appliances will do almost everything but talk—and the making of waffles is not the only rôle of the useful servant shown above. It will bake omelets, cookies, cakes, and other good things that we have never before accredited to it (Waffle-master)

Table Magic in Cooking

by LOUISE GIBBONS GURNEE

SINCE the first Pilgrim Father invited the Indians to Thanksgiving dinner it has been the prerogative of the American husband to ask his friends, either singular or plural—and sometimes both—home to his house for food. More often than not he'll do it without consulting you first, serene in his faith that the woman who runs his home can conjure a meal out of thin air. If you speak about it later —as you know you shouldn't—you'll spoil both his pleasure and your disposition. The only thing, then, is to justify his faith and learn how to dispense unexpected and effortless hospitality. It's as "easy as rollin' off a log" and much more fun!

Stock one of your pantry shelves with an alluring array of canned fruits, meats, and vegetables. Let them rub elbows with standard packaged goods, with extra cans of coffee, of milk, of foods done up in glass jars. Buy them all at once, if you like, or add the items to your regular grocery list, a few at a time. But put them away and mentally mark them "to be used in emergencies only." Make a vow to yourself at the very same time that never will your refrigerator be empty of butter or eggs or your bread box empty of bread.

Then take a look at your array of sturdy electrical servants—your grill, toaster, table stove, percolator, waffle iron, any combination of this kind of equipment you have. See that they're in good working order and promise that you'll let them serve you. For the canners of canned goods, the packers of packaged foods, the manufacturers of electrical household devices have prepared those foods and invented those appliances to help us women in everyday living and to meet our emergencies.

Then, what if your husband does invite his friends for supper? Dry your tears if you've shed any, or better still, don't cry. For men eat with their eyes instead of their stomachs. Juicy pink ham or bacon sizzling on an electric grill right under their eager noses will taste better than the most complicated meat dish you could pull from an oven. Coffee gurgling and perking within eye sight and ear shot

The aroma of delicious piping hot coffee has been known to "still the male's most savage mood" and when served in one of the graceful electric percolators it even surpasses the nectar of the gods (Westinghouse percolator set). A toaster with a timing device never fails to produce an evenly browned product toasted to just the desired crispness (Toastmaster)

will make a saint out of a satyr. It was a man, you know, who said there was one perfume that stilled the male's most savage mood—and that was the aroma of coffee and bacon cooking. Even toast with its golden glow is so appealing to the masculine eye that a famous fabric designer once named his new silk for it!

So put on your best smile and your fluffy company apron. Pull out a table right in your living room. Spread it with a simple linen cloth. Lay on your largest plain napkins, even if they don't match the cloth. There's a story that a man once went raving mad at the sight of a lace edged napkin. Fill a tray with the food and utensils you need. Let someone else put the plates around. Then proceed to cook at the table. A wife at the table is worth two in the kitchen at a time like this.

Your table appliances will do almost everything but talk. Hot breads, waffles, gingerbread, biscuits, cakes, muffins, griddle cakes, broiled foods, boiled foods, steamed foods, even good old-fashioned doughnuts can be made at the table by simply pushing a button. Whole meals appear as magically as the dinners little Two-Eyes used to order up by saying, "Little goat bleat, little table appear!"

But for the purposes of emergency entertaining it's better to confine one's dishes to the simpler kind of foods. Even if men do like to see food cooked before their eyes they don't want to twiddle their thumbs or tighten their belts while you go through a long set of culinary contortions before food materializes ready to be served.

So what will you cook? Simple food, yes. But even such a simple dish as scrambled eggs and bacon can be different. How? Consider this: Cut (with that gay handled pair of kitchen shears) six strips of bacon into one-inch squares. Distribute them on the heated cooking surface. Let them crinkle with crispness. Break six eggs into a bright colored bowl; add three tablespoons cream and a dash of salt and pepper. Whisk lightly with a fork. Pour over the bacon and stir the mixture gently till cooked. Serve with toast, hot and buttered, and that heavenly liquid known as coffee.

Plain, honest ham makes the society column when it's seen on the same grill with rings of translucent, yellow, canned pineapple. Mundane hamburger patties gain a romantic end by the side of that exotic, tropical fruit, the banana. Never mind if your guests' eyes do pop open when you prepare such unorthodox combinations. Their mouths will pop open—and shut with satisfaction after the first forkful.

Omelets may be hurry-up food but their memory will linger long and lusciously if you fold within their fluffy, light hearts (one tablespoonful for each egg) the tiniest of tiny, pearl shaped green peas. And can pancakes have a company manner? Easiest thing in the world. Just add to the batter, made from any one of the nicely behaved wheat pancake flours on the market, one half cupful chopped dates for every cupful of flour. Watch those griddle cakes get highfalutin'! Chopped nuts or raisins in the same proportion, will lend an air of distinction.

And is French toast such a back number that you hesitate to serve it at this modern table? Then use that modern appetite tempter, tomato juice, in place of milk in its preparation. And is it good with ham or bacon! Fried eggs, too common? An inspired Frenchman thought so once and tossed a tablespoon of hot vinegar over each egg before serving. And that, dear ladies, is Egg (*Continued on page 57*)

Several cooking processes may take place at the same time with a two-burner grill such as the model shown above (Everhot table stove, courtesy of the Six Little Kitchens, John Wanamaker, New York)

For the adherents of the drip method of coffee making there is a device that is not only attractive as a table appointment but interesting to watch as it goes through its performance of brewing coffee (Silex Coffee Maker)

Grills, large and small, round and oblong, are designed to meet the hostess's various cooking requirements (Westinghouse table stove)

A Time-Table *for your* Vegetable Supply

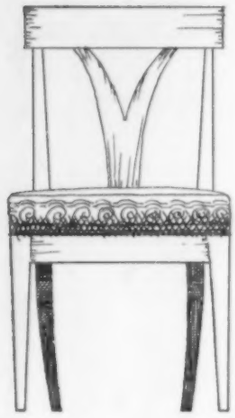
CLASS AND VARIETIES	SPACE TO BE PLANTED	SEEDS NEEDED	WHEN TO SOW	READY FOR USE	CROPS TO EXPECT	GENERAL CULTURE
Beans, Bush						
Bountiful, Burpee's Stringless (Green Pod) or Sure Crop Wax, Brittle Wax (Yellow)	30 ft. row 5 times	1 pkt. or ½ lb. each of any two	May 15th. and every other week up to July 15th.	60 days from date of sowing	About 1 quart of pods per foot of row	Rows 2 feet apart, drop seeds 4 inches apart; cover 2 inches deep. Hill slightly, never cultivate while wet.
Beans, Lima						
Fordhook Bush	50 ft. row	1 lb.	June 1st.	100 days	25 qts. pods	Rows 2½ ft. apart, seeds 6 in. apart, eye down; cover 2 in.
Leviathan Pole	25 hills	1 lb.	June 1st.	120 days	50 qts. pods	Place 6 beans to hill; let 3 strongest grow.
Beets						
Detroit Dark Red, Crimson Globe	50 ft. row each	1 oz. each	April 15th. 20 ft. row. Repeat every two weeks	60 days, 75 days	3 dozen from 10 feet of row	Thin out plants to stand 3 inches apart in row. Use while young.
Cabbage						
Copenhagen Market	50 plants	1 pkt. each	March 15th. coldframe	110 days	As many heads as plants set out	Harden and set 2 ft. apart. Apr. 15 in rows 2½ ft. apart.
Succession	50 plants			115 days		
Surehead	75 plants		May 1st. outdoors	125 days		Transplant to permanent rows, 2½ ft. each way.
Danish Ballhead	75 plants			130 days		
Carrots						
Amsterdam Forcing	30 ft. row	1 pkt.	½ April 15th.	60 days	1 dozen roots to 3 feet of row	Thin to 2 in. in row.
Chantenay	30 ft. row	1 pkt.	½ May 1st.	75 days		
Danvers Half Long	50 ft. row	½ oz.	May 15th.	100 days		Thin to 3 to 4 in. in row.
Celery						
Easy Blanching	50 ft. of row	1 pkt. each	March 1st.	125 days	100 plants	Sow in hotbed, harden, and set outdoors in early June. Rows 3 feet apart plant 6 inches apart in rows.
Fordhook Emperor	100 ft. of row			150 days	200 plants	
Corn, Sweet						
Golden Bantam	50 ft. row	½ lb.	May 30th.	80 days	18 ears from every 10 feet of row	Drop seeds in rows, 2½ to 3 ft. apart. Thin to stand 1 ft. apart. Hill to support stalks.
	50 ft. row	½ lb.	June 15th.	80 days		
Howling Mob	50 ft. row	½ lb.	June 1st.	90 days		
Country Gentleman	50 ft. row	½ lb.	June 1st.	110 days		
Cucumber						
Fordhook Famous	12 hills	1 pkt.	June 1st. and 15th. 6 hills each time	60 days	12 fruits per hill	Hills 3 ft. apart, 6 or 8 seeds to hill, reduce to 3 sturdiest plants.
Lettuce						
Black Seeded Simpson	20 ft.	1 pkt. each	March 15th.	60 days	1 head per running foot of row	March 15th sow in coldframe, to set outdoors April 15th. Other sowings outdoors. Rows 2 ft. apart, plants 8 to 12 in. apart in row, according to size of heads.
Wayahead	40 ft.		March 15th. April 15th.	60 days 60 days		
All Seasons	20 ft.		April 20th.	75 days		
Wonderful Crisphead	20 ft.		April 25th.	85 days		
Kingsholm Cos	20 ft.		May 1st.	75 days	2 plants per foot	
Onion						
White Silverskin	50 ft. sets	1 pint	April 1st.	60 days	200 scallions	Space rows 18 in. apart. Sets 3 in. apart in row. Cover seeds lightly. Thin out seedlings to 3 to 4 in. apart.
	25 ft. seeds	1 pkt.	April 15th.	85 days	15 lbs. bulbs	
Yellow Globe Danvers	50 ft. seeds	1 pkt.	April 15th.	85 days	60 lbs. bulbs	
Prizetaker	25 ft. seeds	1 pkt.	April 15th.	100 days	40 lbs. bulbs	
Peas						
Market Surprise	50 ft.	1 lb. each	March 15th.	55 days	6 to 8 qts. of pods for every 10 ft. of row	Rows 2½ ft. apart. Cover seeds 2 to 3 in. deep. These are dwarfs, but vines bear better if supported by wire or brush.
Little Marvel	50 ft.		April 15th.	60 days		
Thomas Laxton	50 ft.		April 15th.	65 days		
Potlach	50 ft.		April 15th.	80 days		
Radishes						
Rapid Red	40 ft.	1 oz.	April 15th. and repeat every week up to June 1st. 10 ft. row.	30 days	12 roots from every 2 to 3 ft. of row	Sow short rows often. Cover seeds ¼ inch deep. Thin out to stand 2 to 4 in. apart.
Icicle	60 ft.	2 oz.		35 days		
Chartier	40 ft.	1 oz.		45 days		
Spinach						
Long Season	50 ft.	1 oz.	April 1st.	30 days	1 bushel cut all summer	Rows 18 in. apart. Cover seeds ½ in. deep. Allow for 5 ft. of spreading.
New Zealand	15 ft.	1 pkt.	April 15th.	75 days		
Squash						
Cocozelle Bush	20 ft.	1 pkt.	June 1st.	60 days	25 to 30 fruits 3 to 4 per hill	Rows, or hills 2 ft. apart. Cover seeds ¼ in. Thin out Bush to 1 ft. Allow Hubbard 3 plants per hill.
Warted Hubbard	10 hills	1 pkt.		120 days		
Tomatoes						
Bonny Best	12 plants each	1 pkt. each	April 1st. in hotbed	90 days	6–8 lbs. per plant	Set plants 3 ft. apart each way, prune to 3 strongest branches, train to stakes 5 ft. tall.
Livingston's Globe				100 days	8–10 lbs. per plant	
Livingston's Stone				120 days	12 lbs. per plant	
Turnips						
Purpletop White Globe	50 ft.	1 pkt.	25 ft. April 1st.	50 days	1 doz. to 3 ft. row	Rows 2 ft. apart. Cover seeds ¼ in. Thin to 4 in.
			25 ft. July 1st.	50 days	1 doz. to 3 ft. row	
American P. T. Rutabaga	50 ft.	1 pkt.	June 1st.	100 days	1 doz. to 5 ft. row	Rows 2½ ft. apart. Thin to 6 in.

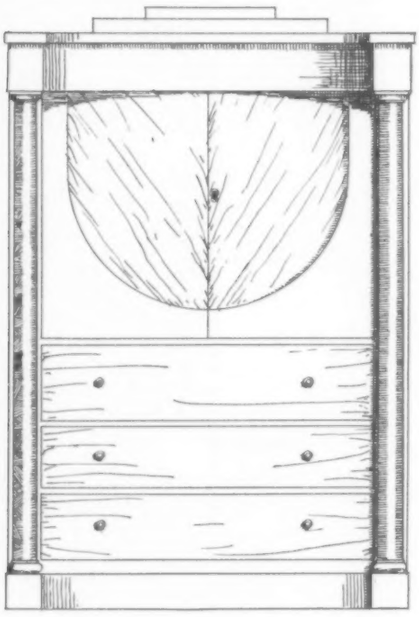
The varieties named represent types only and similar ones may be substituted.

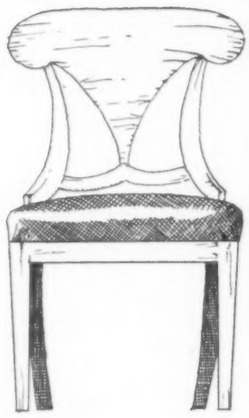
A Course in Furniture

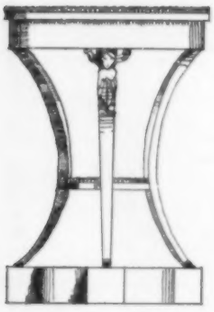
XIII. Biedermeier Furniture

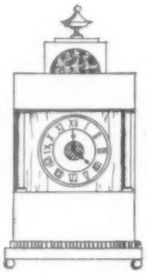
Drawings by LURELLE GUILD

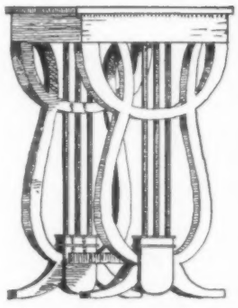




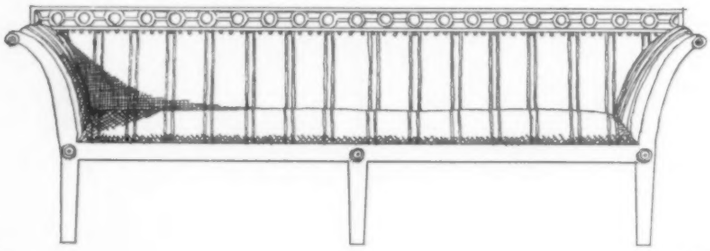


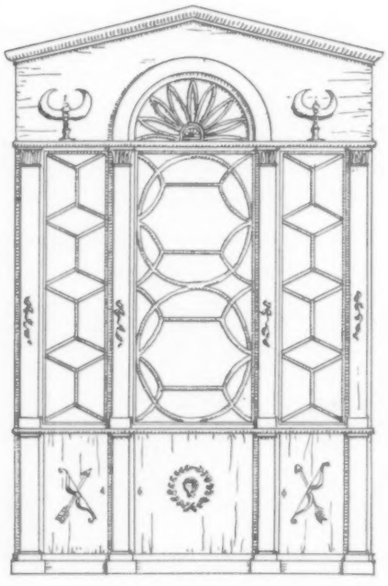




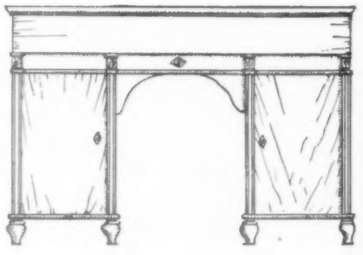


This type of modified Empire furniture showed much plain wood, with pillars having metal bases, and architectural effects adapted to cabinetmaking forms. There are some suggestions of the moderne mode also in its straight lines, and right-angled corners. The burl veneers, with black ornamentation and gilded carvings are typical of this furniture





Biedermeier was popular in Europe well up to the middle of the nineteenth century and reflected the sentimental period in Germany, and the times of Louis Philippe in France, and of Queen Victoria in England. It was made from the native fruitwoods with gilt and embossed metal decoration. The style has been well adapted by modern cabinetmakers



THE term "Biedermeier" is perplexing to many people who are interested in the history of furniture. The origin of the name is a mystery to many, particularly since they are told there never was such a person or designer, even though they come across occasional references to someone called, "Papa Biedermeier." The fact is that "Biedermeier" in German means simply a good citizen or a happy, middle class person who lives contentedly in solid comfort. Papa Biedermeier first appeared in cartoons in the *Fliegende Blätter*, where he was paraded through a whole series of adventures which made him as popular and as well-known as a newspaper supplement hero to-day.

The name Biedermeier thus came to be attached to a type of furniture which was evolved after the Vienna Congress of 1815, and was in fashion until approximately 1850. It was based on the Empire and the Directoire which was in vogue in England, France, and Middle Europe, the lines following the Empire style, sometimes clumsily, sometimes achieving real beauty. The materials used in its construction were much less expensive than those in which the Empire and Directoire models were fabricated. For the grained mahogany veneer, beloved of Empire cabinetmakers, the Biedermeier designers substituted the local fruitwoods, particularly the wild cherry which is a light pale yellow, and burl walnut, while the typical black ebony of the richer pieces found its substitute in black enamel and lacquer. These were put on in bands and borders and occasionally even whole pieces were finished in them, in which case they were usually upholstered in the deep golden yellow shade which was considered the fitting complement of the black note in all Biedermeier examples. Black horsehair was often used on the golden yellow chairs. Decorations took the form of silhouettes of animals, birds, and flowers, stamped brass was used in place of bronze, and gilded wooden stars were substituted for the elaborate metal ornaments of the richer examples.

Painted motifs displayed wreaths and festoons, the favorite symbols of the Empire, and these form the decoration on satinwood pieces, or on painted furniture of one clear tone. Pseudo-classic motifs were popular and were done in the realistic manner which appeals to a sentimental people.

MODERN reproductions of Biedermeier are fully as interesting as the originals, since they have a grace and charm of proportion which only the best of the early pieces achieved. Modern apartments may be interestingly furnished with modified Biedermeier as these examples of cabinet making are comfortable, and the woods lend themselves well to modernistic color schemes. The quaint pieces are best seen against walls of rather bright clear colors, or with the striped or marbleized wallpapers suitable to the period. Chartreuse, or lemon yellow, rich bright blues, or warm grays are the colors which go best with this type of furniture, and the walls may have painted borders of swags of drapery with fringe, tassels, and the other typical decorations of the period. If wallpaper is used there are cut-out borders which are appropriate, while for floor covering a black, rich blue, or raisin-colored rug, a figured carpet, or black and white linoleum in a tiled effect may be used.

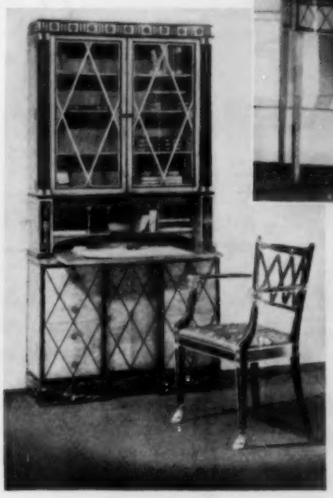
Modern reproductions of Biedermeier have the grace and charm of proportion which only the best of the early pieces achieved. (Elgin A. Simonds Co.)

Gilded stars are among the typical furniture ornamentations of this period. (Marshall Field & Co.)

Chairs as well as other Biedermeier pieces were comfortable, a feature that appeals to modern decorators. (Marshall Field & Co.)

Bands of black lacquer make a striking contrast against the light fruitwoods. (Elgin A. Simonds Co.)

The quaint dressing table above, designed with drop leaves, would be very appropriate in one of our present-day bedrooms. (Baker Furniture Co.)



This console table and mirror would be in keeping with the furnishings of a modern home. (Elgin A. Simonds Co.)

Biedermeier secretary of fruitwood with contrasting black stripes. (Elgin A. Simonds Co.)

This copy of a Biedermeier bed has kept the simple lines and good proportions of the original. (Baker Furniture Co.)

The increasing popularity of recreation and games rooms has given the cellar even more importance than it ever had before, and in view of this fact, therefore, it is most essential that the walls and floors be made perfectly dry. (Congoleum Nairn)

Waterproofing *the Cellar*

by J. PAUL ATWOOD

CAN you swim in your cellar? Many people who had no idea that the house they were buying contained a pool have discovered one after the first heavy rainfall. Sometimes the pool is only a small one; other times the entire cellar is flooded. But, small or large, there are few structural defects that can cause as much trouble, involving considerable expense, as a foundation which is not water tight.

Yet, it is as easy to build a cellar that will be dry as one that will be wet. Conditions must be studied beforehand, of course. The location of the homesite, whether it is in a valley or on high land, the class of soil, and the average rainfall should all be considered before the materials of which the foundation is to be built are chosen, or the way in which the foundation is to be built decided upon.

Unless a home owner knows how much inconvenience and discomfort can be occasioned by a wet cellar, he is apt to give little thought to the construction of the foundation when he is building, or buying a new home. He may have decided opinions on the roofing materials which he wishes used. But a foundation is almost entirely hidden, and so, he asks, what difference does it make whether it is built of stone or brick or concrete.

Even though the workmanship which goes into the building of the foundation is good, the cellar may still be wet because the wrong materials were (*Continued on page 62*)

A daily program for Beauty

by DOROTHY COCKS

A HOME is in a sense a stage—a background for your family life, the scene of your entertaining, the setting for *you*. It is fine and beautiful when it is designed as an appropriate setting.

This means much more than that the walls should reflect a color becoming to you. (Though it always surprises me that so many women have blue rooms that make the complexion look ghastly.) It means that the spirit of the rooms should reflect *your* spirit. Your habits should be considered in the choice and arrangement of furniture. Your hobbies should be revealed in the details of decoration. A home that is thus in harmony with its creator takes on warmth and feeling that make it emphasize and highlight your own personality.

But in the very thought that your home is a setting is the implication that it is *only* a setting. *You* make the scene come alive. The grace and beauty of the house should find their chief exponent in your own person. Perhaps the most significant thing a home maker can do is to make herself the embodiment of the charm she tries to build in her home and her family life.

I can never think it is idle vanity for a woman to try to make herself more beautiful. If her husband finds lasting delight in looking at her, if her children find pride and happiness in comparing her with other mothers—then her little ceremonies before a mirror are more than justified. Children have an odd native sense of beauty. They love a mother who is fresh and lovely. Their appreciation should be your incentive to keep yourself young and to make yourself attractive always.

What should these ceremonies before your mirror be? What can they do? At this time of year, your skin, like your wardrobe, probably needs refurbishing. It is very likely to look dull, as your winter clothes do. There are good reasons for it. Cold weather often constricts circulation in the skin, and the resulting poor circulation allows poisons to accumulate in the skin cells, which dull the complexion. The air of our usually over-heated houses is as dry as the air of the desert; it robs the skin of moisture, leaves it parched, papery, and lined. By spring, your complexion probably (*Continued on page 41*)

Stroke around the eyes rhythmically with the cushions of your fingertips, outward along the brows and upper lids, down across the "crows'feet" lines, and in toward the nose

One school of beauty specialists recommends the use of a light cleansing cream which dislodges the dust particles and at the same time lubricates the skin. This should be wiped off with soft tissue and then the face and neck patted briskly for several minutes with a skin tonic lotion. Th skin is then in condition for receiving foundation cream and make-up

An alternative method of daytime treatment is to use a liquid cleanser on a pledget of cotton. Its tingling stimulus cleans and brightens the skin and has an effective astringent action on the pores. For an oily skin this type of liquid cleanser constitutes a complete treatment; for a dry skin it should be followed by an application of tissue cream

It must be remembered, however, that daily exercise, a healthful diet, sufficient sleep, and plenty of fresh air are fundamental factors in the care of skin. Then, after proper cleansing and treatment with creams and lotions, you are ready for the finishing touches of powder and any becoming make-up that enhances your individual beauty and charm

Adams Studios

Now is the

by ROGER B. WHITMAN

Figure 1

Figure 2

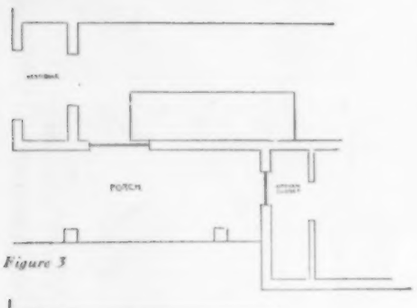


Figure 3

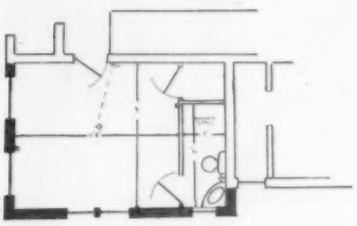


Figure 4

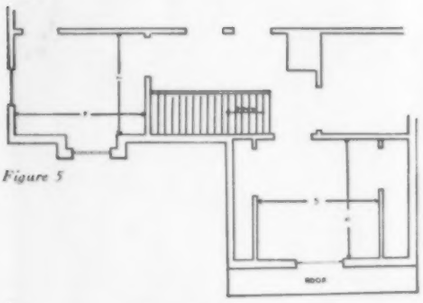


Figure 5

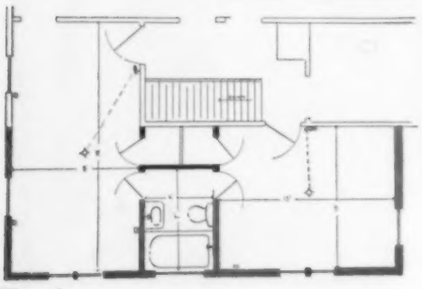


Figure 6

Figure 7

These pictures illustrate what one subscriber to The American Home did to increase the value of his home and to add to its convenience. He "did it now" because prices for materials and labor offered attractive bargains and by modernizing he was giving employment and moving money.

Only half this interesting story is told on these two pages. Next month we shall publish two more pages illustrating the interior finish and the new heating, plumbing, and electrical equipment.

On page 41 of this issue of the magazine you will find detailed lists of the costs and materials used in the reconditioning of this outdated house. Also there is a description of the service which the United States Department of Commerce is prepared to offer remodelers.

time to remodel

Figure 12

Figure 13

Figure 14

FIGURES ONE AND TWO. "Before and after."

FIGURES THREE TO SIX are the floor plans showing (in gray lines) how much was added to the old house. Fig. 3 is the old porch which was replaced (Fig. 4) by a room and bath. Fig. 5 is the original second floor plan; Fig. 6 the second floor plan as remodeled.

FIGURES SEVEN TO ELEVEN show the actual steps in modernization. Beginning with Fig. 8, the projecting roof of the old second floor was supported by an overhang to the new framework (Fig. 9) which was of heavy lumber. This was sheathed (Fig. 10) with stoutly nailed shiplap and the old roof and dormer were not removed until the new roof and walls completely covered them with weather-tight sheathing. Believing that the gable ends would not look well in stucco, these were shingled over the same 18-pound roofing felt that was used (Fig. 11) under the metal lath for the stucco finish of the rest of the walls. The 18-foot rafters were supported at their centers (Fig. 7). The valley flashings (Fig. 11) were single strips of copper in the center of a wider strip of asphalt roofing. The 24-pound roofing felt was covered with asphalt slate shingles.

FIGURES TWELVE TO FOURTEEN. Wood molding was nailed to window and door frames an inch in from the edges of the frames (Fig. 12) and the felt (Fig. 13), metal lath and stucco (Fig. 14) were carried up to it to seal the joints between frames and walls. Eighteen-pound felt (Fig. 13) was applied over the old clapboards instead of building paper, being less likely to tear. The bottom edges of the wall were built out to throw drip away from the foundations.

Figure 11

Figure 8

Figure 9

Figure 10

Annuals

Presented by the dot and dash system

by ROMAINE B. WARE

GRAPHIC charts have many uses. The amateur finds them of value when planning borders because of the breadth of information available in limited space. As you study the seed catalogs, these charts will guide your search for just the thing wanted for definite locations and uses. A glance will show which kinds must be sown indoors and those for which outdoor sowing is satisfactory. Maybe you need tall annuals. These charts list the more important, and a glance indicates approximate heights. Many pages of wordy descriptions would be necessary to present the information included in these two charts and even then it would not be as readily available.

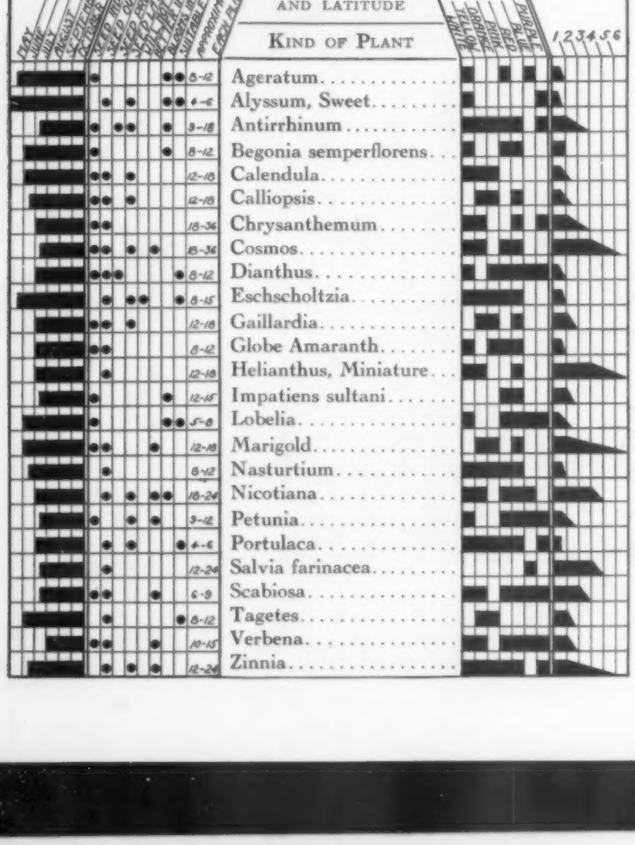
Much of successful gardening depends upon the selection of the plant material. Color, height, season of bloom, and many cultural requirements must be considered in choosing the best kinds to fit into various conditions. Definite color combinations and schemes are readily worked out from these charts. Yellow gardens, blue gardens, or white gardens, or perhaps those of more unusual colors may be planned using the charts as guides.

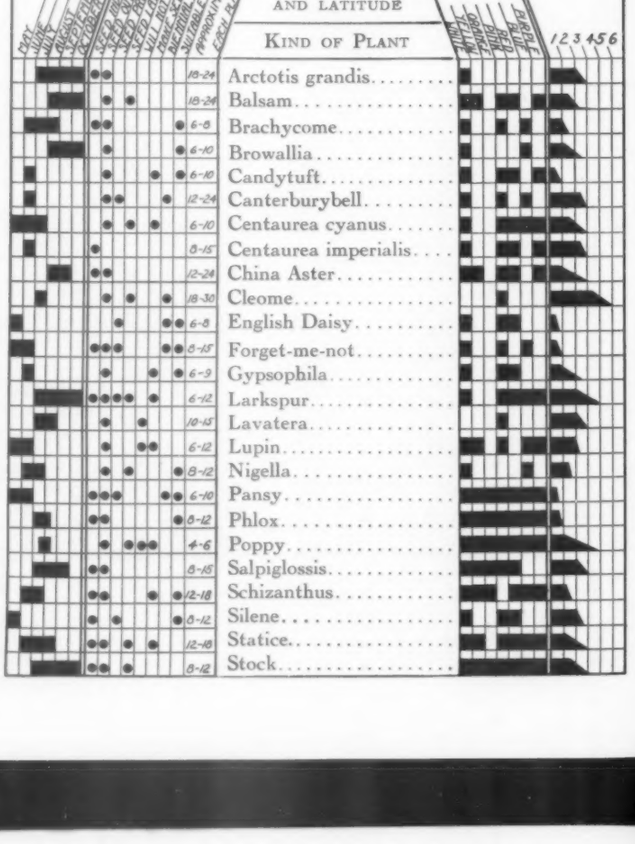
Season of bloom is of great consequence in the use of annuals. They have a most important rôle to play in our border schemes, especially to fill in and supply color among early blooming hardy herbaceous flowers or those blossoming for but a short season. If these schemes are to work out right, they must be planned carefully. These charts indicate results under average conditions and should they not exactly fit your section you can easily make modifications to suit. This will involve some experimenting and careful checking up of facts, but in the end you will have a source of data worth all the effort.

THERE are more than one hundred fifty annuals listed in modern seed catalogs between Abronia and Zinnia. Many of them are little known, some are absolutely indispensable, while others would not be greatly missed should they be lost to commerce.

It is not presumed that the fifty annuals here listed, are the only ones worth growing but they have been chosen for usefulness and practical value. Many others might be included as not every gardener will agree with the selection here presented. Each one should work out a garden scheme to meet his individual needs and conditions. But these charts should help to broaden your garden field, and guide you on the road to better gardens.

ESSENTIAL FACTS OF FIFTY POPULAR ANNUALS





SCREENS THAT RUST . . . require frequent painting.

UGLY PATCHING . . . further adds to your expense.

AND FRAMES . . . must be rescreened every few years.

Why Spend Money on Screens Year after Year...

...*when Screens of* Anaconda Bronze Wire *cost only* 50 *cents more*

IF your home has rustable screens, you know all about the annoyance and expense that rust causes. This spring, why not do away with painting and patching, by rescreening with Bronze cloth?

Bronze screens *cannot* rust. They withstand weather and wear. With ordinary abuse, they remain taut and firm, new-like for years. *And they are not expensive.* Bronze screen cloth retails for about 50 cents more per window than rustable screening... and lasts many times longer. Isn't this extra cost a trifling amount to pay for freedom from rust . . . for lasting screens.

Leading weavers of screen cloth use Anaconda Bronze Wire which, woven 16 meshes to the inch, weighs not less than 15 lbs. per 100 square feet. Such cloth meets all requirements of most communities.

The Utmost In Screen Value

When your screen frames are also of Bronze, you have obtained the utmost in screen value. Bronze frames never require painting . . . never rot or warp . . . and, of course, never rust. Moderate in price now, their first cost is their *only* cost. Bronze screen frames fitted with Bronze screen cloth provide lifetime service.

Other Uses for Durable Metals

Other Anaconda metals provide economy and comfort throughout the home. Water pipes of Anaconda Brass, forever immune to rust, cost for the average home only about $60 more than pipe that merely "resists" rust for a limited time only.

Gutters, rainpipes and roof flashings of Anaconda Copper give extra years of expense-free service. Solid Brass and Bronze hardware retains its rich beauty indefinitely. And well-made water storage tanks of Copper or Everdur (strengthened Copper) stop rust at a troublesome source.

For a copy of our booklet, "Copper, Brass and Bronze in the Home," address The American Brass Co., Waterbury, Conn.

ANACONDA
from mine to consumer

Screens of ANACONDA BRONZE

New plants for the Dry Rock Garden

by ADOLPH KRUHM

Now that we have become "rock garden minded" it is pretty near time that we face facts squarely as to the relative merit of the various plants pronounced suitable for the rockery. Many highly praised rock garden plants are nothing short of a weed menace. As a specimen plant around a lonely boulder, the Stringy Sedum (S. sarmentosum) is charming; as part of a small rock garden it soon becomes a nuisance.

That is true too of Sedum stoloniferum, well called Running Sedum, often of the pink creeping Mosspink (Phlox), and other vigorous and rapidly spreading plants. The Roof Houseleek will crowd out all the smaller, though much more attractive Hen-and-Chickens, and little Fringed Bleeding-heart (Dicentra eximea) will dispossess many other inhabitants of the rock garden, if just one season's crop of seedlings be permitted to develop.

One source of trouble is that sentiment frequently gets the better of good judgment in the garden. In the rock garden especially, sympathy and sentiment must be thrown overboard or you will suffer the consequences of crowded monotony. In a rock garden variety is a necessity.

Fortunately, the last few years has seen the scores of available rock garden plants increased to hundreds. And the hundreds will help us rid the rock garden of the space-eaters referred to above. In presenting a dozen plant introductions of the last few years, let it be understood: First, that none of them are really novelties, since they have been doing duty in other parts of the world for years—it has been a case of getting them properly established, and the attempts proved successful. Secondly, with a single exception, all the plants mentioned thrive wonderfully under the dry and hot conditions that rule in so many rock gardens. On Long Island, N. Y., for example where the usual summer heat and excessive drainage combine to make plant life in general miserable for two months in the year, these rock garden newcomers simply revel.

Occasionally creators of plant names make a bull's-eye hit. Whoever named that finest of all creeping or hanging Bellflowers Campanula muralis must have been an artist at heart. Imagine a living mural painting composed of hundreds of twinkling purplish-blue star-shaped flowers disposed against a gray wall or rocks, and you have a picture that will delight the most sophisticated. Throughout June it enlivens whatever spot it graces, while for the balance of the growing season its clean, finely cut foliage furnishes pleasing contrast. Louise Beebe Wilder in her book *Pleasures and Problems of a Rock Garden* mentions that, where region and soil combine to make things pleasant for the little Bellflower, it will bloom again in late summer and fall after having gained its midsummer rest.

As Campanula muralis ceases to be a picture, Campanula raineri comes into its own. Also, of dwarf, spreading habit, it begins to unfold its lavender-blue flowers late in June and keeps at it the entire month of July. For best effects both raineri and muralis should be planted in clumps of three or more—the larger the clumps, the finer the effect.

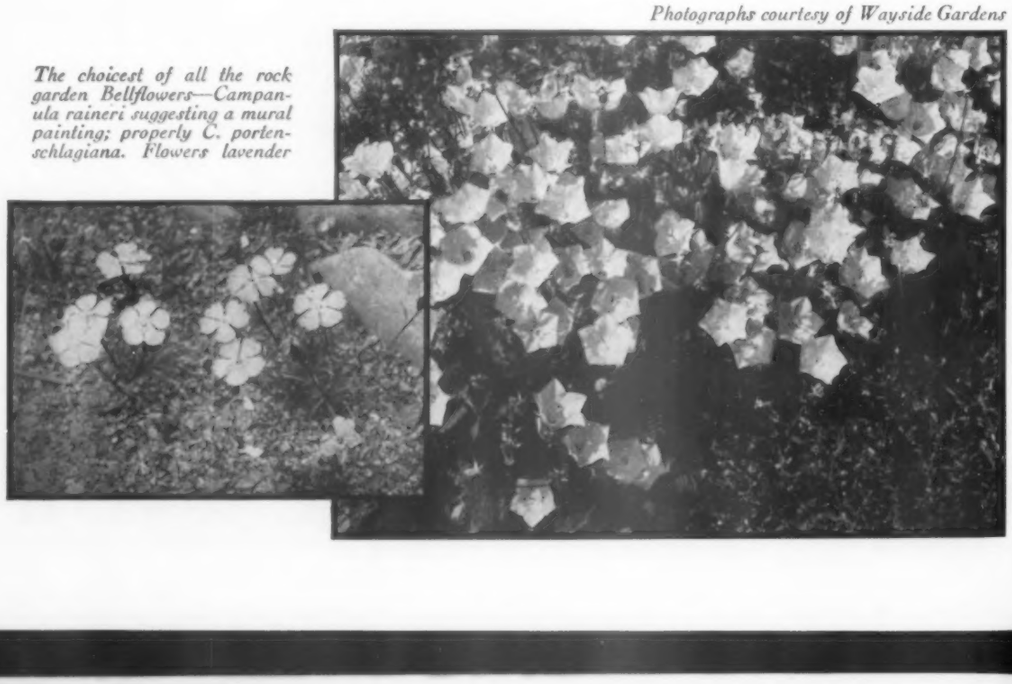
One persistent problem is how to keep the rock garden alive with color after June. In the Alpine Fleabane (Erigeron alpinus), that dwarfest of composites, you find a tireless and faithful bloomer bearing attractive heads of purplish flowers with charming, contrasting discs, and will keep color on the rocks from June until August. Heat or drought, rain or shine, it matters little what the weather is, nor even how poor the soil.

Ordinarily we think of Vetch as a plant grown for green fodder for farm animals. But in Coronilla cappadocica or iberica we meet the crowned beauty of the family. And how it deserves to be known! The plant itself, with its finely divided, shiny, bluish green foliage and trailing is of most artistic habit. Its crowning glory consists of lovely racemes of golden yellow flowers during June and July.

And now a humbler denizen for our rock garden, which, however, has two outstanding characteristics: Dianthus knappi not only is one of the daintiest of all Pinks, but it also has the unique distinction of being the only yellow-flowering member of the tribe; moreover it loves hot weather and a dry, well-drained situation.

The majority of Columbines grow much too rank to be considered well-behaved citizens for the average rock garden. But in Aquilegia flabellata nana-alba we have a dainty Japanese visitor that fits to perfection. It's foliage is so charming that the little white lady proves an asset

Photographs courtesy of Wayside Gardens



The choicest of all the rock garden Bellflowers—Campanula raineri suggesting a mural painting; properly C. portenschlagiana. Flowers lavender

Unique is this little yellow-flowered Pink (Dianthus knappi), and a glutton for hot, dry weather

His last job on this roof!

* No J-M Asbestos Shingle has ever worn out.

FOR AS LITTLE AS

$19.50 DOWN

you can re-roof for the last time

with J-M Asbestos Shingles

A year to pay

A ROOF that will last forever! No leaks, no curling, no rot, no upkeep.

For as little as $19.50 down, a year to pay the rest, you can have just such a roof on your home—*a permanent roof of Johns-Manville Asbestos Shingles.* Why wait another day?

• • •

Fire protection, too! Made of asbestos fibres and Portland cement, J-M Rigid Asbestos Shingles protect your home from loss (23% of residential fires start on roofs).

The many colors in which J-M Asbestos Shingles come offer a selection from which you can choose exactly the roof your home needs. Prominent architects supervised the choice of the cool grays and greens, the warm browns and reds. They also assisted in selecting the various styles and textures of J-M Asbestos Shingles.

Still lower in cost are the J-M Flexible Asphalt Shingles. Surfaced with finely crushed rock or slate, they make a roof that is fire-resistant and durable. Beautiful, too, for J-M Asphalt Shingles come in solid colors and soft blended shades.

The local J-M dealer will gladly inspect your present roof and assist in the selection of a new one *without any obligation.* He will also be glad to tell you about J-M Asbestos Wainscoting. It has the color and charm of ceramic tile of high quality—without the cost. $9.75 down and small monthly payments will modernize that dingy bathroom or kitchen! If you do not know the J-M dealer just mail the coupon below.

Johns-Manville Roofs

For residence, office building, industrial plant . . . permanence, protection, satisfaction

AH-4

MAIL COUPON FOR FREE ROOF INSPECTION

JOHNS-MANVILLE • 41st Street and Madison Avenue • New York, N. Y.
I would like to have your dealer inspect my roof—free. I would also be interested in learning more about J-M Asbestos Wainscoting. This places me under no obligation.

Name_____

Street_____

City_____ **State**_____

even without flowers. The flower stalks rear gracefully eight to ten inches above the foliage, supporting perfectly shaped ivory-white flowers.

In Sempervivum atroviolaceum we meet the aristocrat of the Houseleek family, large and colorful and well behaved. This species forms a beautiful rosette of purple leaves, in almost semi-ball shape. Fully developed specimens measure as much as five inches across by three inches in depth. This size is not reached, however, until after growing nicely for at least two seasons, and in the meantime no new brood develops. This slow growth makes atroviolaceum valuable for the rock garden of limited dimensions.

And now we introduce an Onion! Allium thibeticum is an "honest-to-goodness" member of the Onion family, which, until five years ago, never thought of leaving the home of the Llama and prayer wheels! But along came an enterprising British plant collector, saw the beautiful waxy, bell-shaped, hyacinth-resembling flowers, and that was the beginning of Allium's campaign to conquer new worlds. Seeds reached our shores, sprouted, and a new Allium was born. They bloom during June and July, the lilac-mauve flowers being borne on stiff stems, six to eight inches high.

An Onion with flowers like Hyacinths—Allium tibetica is one of the really newcomers

A lovely pink flushed form of the very popular Rock Cress is offered as Arabis alpina rosea, but may be A. muralis

THERE is a Thistle that should make every Scotch gardener happy! Why? Carlina acaulis is a thrifty lady that can get along with less nourishment and moisture than any plant I know. Mine grows literally, on an ash heap, the basis of my rock garden. A nearby Privet hedge absorbs nearly all the moisture, yet Carlina seems contented. After perfecting a symmetrical plant of silvery, spiny leaves, it settles down to the all important business of growing an immense silvery flower with practically no stem.

If there is one thing above all others that we want in the rock corner during July, it is color. When Campanulas go on strike, Wahlenbergias (Edraianthus) come to the rescue. Both tasmanica and dalmaticus, representing Australia and Europe respectively, bring a profusion of bell-shaped blue flowers somewhat resembling Platycodons, but the plants are of dwarf habit, rarely growing above four inches.

Anemone narcissiflora is an exception regarding moisture, on which this present article is based, but is worth a word. It is a lovely alpine species, in its native haunts thriving in the meadows and under moss. The flower heads carry a dozen or more individual white flowers.

Arabis alpina rosea (pictured just above), even if that is not its real name, is a charming pink form of the old popular Rockcress, and needs no more than a mention.

Campanula muralis (below), the choicest of all the rock garden Bellflowers. For best effect it should be planted in clumps of three or more

Center: Called Lady Fingers in England, and as yet little known to us, Coronilla cappadodica with small yellow pealike flowers gives gaiety to the rock garden

At left: This charming little member of the Michaelmas Daisy family loves to ramble around the rocks—Erigeron alpinus, flowers blue

"You didn't know I was an

expert floor refinisher!"

[Neither did he!]

Not so long ago floor refinishing was a tedious, costly job no "amateur" could hope to do well. Today—thanks to Double X—thousands of men and women are surprising themselves (and the family budget) by doing an expert job in one-third the time and at trifling cost.

All you need is a can of this white magic, a pail of boiling water, a mop or brush, a bit of steel wool. You simply dip into the foaming solution, apply to floor, then watch! Watch it remove every trace of varnish, shellac, wax, dirt, grease! Watch it bleach the floor back to its original beauty! And do it all in ONE operation!

Sounds like a fairy tale—but it's true! And it will cost you just 75c to prove it; for that small sum will buy a full pound can—enough to "do over" an average floor—at any paint or hardware store. See free trial offer in coupon below.

DOUBLE X
FLOOR CLEANER

Mail this coupon for free trial package

Schalk Chemical Co., 358 E. 2nd St., Los Angeles. Please send me, free, a 25c "Get-Acquainted Package" of Double X Floor Cleaner. [A-2]

NAME_____

ADDRESS_____

CITY_____

Residence of Dr. Morgan G. Carpenter, Elgin, Illinois. Architect, Elmer Gylleck. Exteriorfinished with two coats of Cabot's DOUBLE-WHITE Collopakes.

Use "*Collopakes*" When You Paint This Spring

JUST as lacquers marked a new era in finishing automobiles, so Cabot's Collopakes (for every paint use) mark a new era in the finishing of homes and other buildings.

Collopakes differ from paints because the particles of pigment are much smaller than is possible with grinding. The finely divided pigment is dissolved (suspended) in the oil, resulting in more than an ordinary mixture, requiring very little stirring before use. Most important of all, the Collopaking process gives these modern colors automatic freedom from brushmarks and non-fading qualities that impress everyone who uses them. The gloss colors stay glossy out of doors. The greater covering power makes Collopakes go further and cost less.

Send in the coupon below!

Cabot's Collopakes

Made by the Makers of Cabot's Creosote Shingle and Wood Stains.
Standard for nearly 40 years

Samuel Cabot Inc.

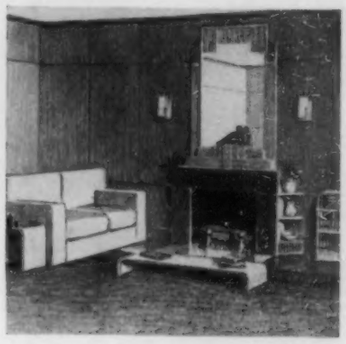
MANUFACTURING CHEMISTS
141 Milk Street
BOSTON, MASSACHUSETTS

Please send me your Collopake Color Card and full information on Cabot's Collopakes.

Name .....

Address AH-4-32

A FIREPLACE . . . . . *that will* NEVER SMOKE *Guaranteed*

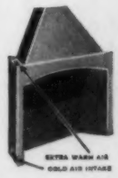


Before You Build—Write

BUILD your fireplace of any design you like and know that it will never smoke. Build it this new way and thus have ample warm air CIRCULATED throughout the living room and connecting rooms.

These advantages in fireplace construction are made possible by the Heatilator—a double-walled metal form, around which any style of fireplace can easily be built. This unit takes cold air from within the room or outside, passes it around the fire, and sends it out warm and healthful, to circulate over the entire room. Saves furnace operation during cool spring and fall weather. Only heat required for homes in mild climates. Ideal for summer cottages, cabins, and camps.

A perfect fireplace is guaranteed; there will be no disappointments, no smoking with the scientifically constructed Heatilator. The small additional investment is offset by savings in labor, materials, and fuel. We'll gladly send you full details of this modern fireplace. Just fill in and mail the coupon today for a free book of Fireplace Designs. THE HEATILATOR COMPANY, 514 E. Brighton Ave., Syracuse, N. Y.



This is the Heatilator Unit around which the masonry is laid. Cold air is drawn into the double-walled chamber from openings within the room or outside. The air is heated and comes out above. Both intake and outlet openings may be located wherever you desire.

Heatilator FIREPLACE

MAIL THE COUPON FOR DETAILED INFORMATION

HEATILATOR COMPANY,
514 E. Brighton Ave., Syracuse, N. Y.
Send me without obligation Free Book of Fireplace designs and nearest dealer's name.
I plan to build.....remodel.....(which?)
Number.....fireplaces.

Name.....

Address.....

NEWS! When children skate on polished floor you can laugh

Use this new wax that resists wear remarkably

Recent discovery cuts work in half—keeps floors better looking

Now—you can give to your floors that lustrous beauty you've always wanted and stop worrying about scratches and other ugly signs of wear. For the way has been discovered to make a wax compound that is easier to put on a floor, that resists wear longer, that won't catch dirt or dust. It is called the Koric Process.

The only wax made by this amazing process is Old English Wax which is sold in paste and liquid form by all paint, hardware and department stores. Try it on your busiest floor.

You'll discover how easy it is to apply... almost like sweeping. Then before you know it marks of wear vanish and the floor takes on new beauty, an alluring sheen that makes the room look lovelier. And the way this beautiful Old English Wax finish resists the hardest wear through days, weeks and months will surprise you!

For waxing painted, varnished, shellacked floors and linoleum, for polishing furniture, there's nothing quite so satisfactory as this new Old English Wax. Try it right away. Made by The A. S. Boyle Company, Cincinnati, Ohio.

Old English Wax

PASTE and LIQUID

What this country needs—a good $5,000 house

Continued from page 18

electric refrigeration, stoves, and sinks are included in the same way that one finds them in a modern apartment. The kitchen received special attention from the architects and they worked in close coöperation with a well-known manufacturer of kitchen units in designing equipment to make these "housewives' workshops" efficient to the nth degree.

In the eyes of foreigners we Americans have developed our "central heating" to an unbelievable degree of perfection. But the fact is we are perhaps too interested in the size of our boilers and not enough in their performance. The heating equipment the architects of THE AMERICAN HOME houses suggest is small but remarkably efficient. It consists of a boiler placed in the "utility room" on the main floor of the house. This type of boiler does not need to be put below the first floor level for efficient operation, and an old-fashioned stove-pipe flue, inconspicuously modern, is enough to carry off the smoke if oil or gas is not used for fuel. A coal-box must be placed in or near the utility room but as the furnaces only use about a half a ton of coal a month the box may be small and well hidden.

As a matter of fact these houses were originally designed by Howard & Frenaye to be heated with electric or gas steam radiators. Unfortunately the rates for these fuels were not sufficiently low in Great Neck, where the houses are being built, to permit their use and the coal heaters were put in as substitutes. However, progress in the field of heating by electricity and gas has been very rapid in recent years and, where rates permit, fuels supplied by wire or pipe are remarkably efficient. Steam radiators placed in each room, and heated by electric or gas burners, afford a flexible and perfectly satisfactory heating system.

Where such radiators are installed there is, of course, no central heating apparatus and the "utility rooms" in our small houses would be used, as originally planned, for storage rooms. The advantages of gas or electric heaters in week-end or summer houses are obvious and where our "compact cottages" are used for these purposes such heaters have much to recommend them, even where gas or electric rates are high. The installation cost of the electric steam radiators suggested by the architects for these houses would be: Colonial house $780, English house $480, Swiss house $480, French house $480. The Colonial house requires more square feet of radiation, hence more radiators.

To assist, at low cost, the heating of these houses the architects have specified "fireplace units" to be built in each fireplace. These units cost about $75 to purchase but they reduce labor and materials charges so that they really only add about $25 to the total cost of the house. As you doubtless know, the units provide a metal form for the construction of the fireplace and when in operation the fire on the hearth heats the air in the metal chambers of these units and the heated air rises through ducts and grilles to heat the entire room and, if desired, through other ducts to heat upstairs rooms.

These cottages are all of frame construction. The roofs are of wood shingles with heavy butts and with a wire brushed texture which emphasizes the natural grain of the material. Exterior walls are sheathed, covered with heavy waterproofed building paper and finished with a veneer of brick, stone, stucco, boarding, etc., as the case may be. All interior floors are thick oak except kitchens and baths which have linoleum finish for cleanliness' sake. All interior walls, except the living room walls, all partitions and ceilings are finished with plaster applied to an insulating lumber base. The living room walls are paneled in pine with insulation behind the boarding and between the studs. Due allowance has been made for the selection of well-designed lighting fixtures and hardware.

In brief, these typical houses have all the advantages of the tiny apartment, none of its disadvantages, and in many ways contribute to the joy of living. They should prove of great interest to anyone thinking of establishing a modest home.

Budget of Costs

Cost of Garage	$ 225.00
Cost of House (Average for U. S.)	4,900.00
Cost of Land	1,000.00
Fee for Placing First Mortgage	200.00
Cost of Grading and Planting	200.00
Total Cost	$6,525.00
Less Amount of First Mortgage	4,000.00
	$2,525.00
Less Amount of Second Mortgage (Paid off in 5 years)	1,850.00
Cash Required	$ 675.00

Carrying Charges

1. Interest on First Mortgage	$ 240.00
2. Interest on Second Mortgage (average)	61.05
3. Taxes	65.00
4. Fire Insurance	10.00
5. Amortization of 2nd Mortgage	370.00
6. Heat	60.00
Total Charge per year	$ 806.05
Charges per month	67.17

Item No. 5 above is really not a carrying charge as it increases the equity in the property and the owner is really paying it back to himself.

The general specifications which may be used in building these houses are printed on the opposite page. As noted above, for $1 we shall send a duplicate set of these specifications and the complete working drawings. With this material we shall include detailed working drawings of the kitchen cabinet units which are especially adapted to these houses and the heating system, for use with coal, mentioned in the specifications.

Specifications for the four houses

Excavation

Excavation for foundations consists of trenches exactly 12″ wide, 3′ 6″ deep, splayed outwardly at the bottom portion and carried to the true level bottoms. Excavation for water supply, sewage disposal, rain conductors, etc., shall be done by the trades whose work requires same.

Masonry

Foundations and slabs under floors shall be poured concrete of 1—3—6 mix. Foundations shall be poured using trenches as forms and shall be 12″ thick. Slabs under floors shall be 2″ thick. All poured concrete shall be mixed with liquid integral waterproofing compound. Slabs shall be given one heavy coat of hot tar.

All porch and terrace floors shall be of common brick laid over concrete base. Utility room floors shall be cement finish. Chimneys and fireplaces shall be built in strict accordance with detail drawings. Flues shall be lined with terra cotta. Brick veneer shall be common brick as selected by the owner, cost of which not to exceed $15 per thousand. Stucco shall be two-coat work applied on standard weight galvanized metal lath nailed to 1″ x 2″ furring strips.

The general contractor will furnish to the mason contractor one complete Heatilator Unit which shall be built in fireplace by mason and faced with material as shown on detail.

All interior walls, partitions, and ceilings, unless otherwise specified under Carpentry, shall be finished with one coat of pre-tinted Solidon, applied over insulating boards as directed by the Solidon Co.

Sheet Metal Work

All flashings, counterflashings, leaders and globular baskets at top of same shall be 16 oz. copper. Heads, jambs, and sills of all exterior openings shall be flashed.

Carpentry and Millwork

Framing shall be spruce or fir. Exterior walls shall be sheathed with ½″ pine sheathing. Sheathing shall be covered with black waterproof paper. Roofs shall be Creo-dipt or Weatherbest pre-stained shingles or hand-rived shingles with ½″ butts laid 5″ to weather over shingle lath.

Floor joists and under side of rough floor shall be given a coat of creosote. Rough floors shall be diagonally laid ⅞″ pine and shall be covered with floor paper. Finish floors shall be Cromar Factory Finished Oak Floors or ⅛″ No. 2 Red Oak. Kitchen and bathroom floors shall be linoleum.

Exterior stained woodwork shall be pecky cypress. Exterior painted woodwork shall be white pine. Gutters shall be O. G. fir gutters. Insulate between studs of exterior living room walls with Balsam Wool, Cabot's Quilt, U. S. Mineral Wool, or Johns-Manville's Triple Thick Insulation.

All interior walls, partitions, and ceilings, except walls of living room, shall be covered with Johns-Manville or Insulite insulating board. Walls of living rooms and all trim shall be tongue and groove ⅝″ Shevlin Pine Paneling laid vertically. Interior trim, except as above noted in living rooms, shall be whitewood. All trim shall be as detailed.

Exterior doors shall be 2″ thick. Casement sash shall be one of the following brands: International, Fenestra, Lupton. All exterior openings shall be screened with full length 16-mesh copper screens. Interior doors shall be 1⅜″ stock six panel doors as made by the Curtis Companies or Morgan Sash & Door Co.

For kitchen cabinet work to be furnished and installed by Wasmuth-Endicott Company allow the following sums: Colonial house $166, English house $124, Swiss house $125, French house $119.

Allow the sum of $55 for finish hardware for each cottage to be chosen from lines of Corbin, Russell & Erwin, Sargent, or Yale & Towne.

Painting

Exterior painted woodwork shall have one coat aluminum paint and two coats lead and oil.

Exterior brick and stone work shall be whitewashed one coat.

Exterior painted woodwork shall have two coats Minwax Flat Finish.

No stain shall be applied to roofs.

All woodwork in living rooms shall be stained one coat of Concord stain as made by Colonial Stain Co. of Boston, Mass.

If factory finished flooring is not used all wood floors shall be given one coat Minwax Flat Finish and one coat of Old English Wax.

All plaster shall be sized with Solidon Co. size as directed by the manufacturer.

Plaster and woodwork in kitchens and baths shall be primed, given one coat lead and oil, and one coat egg-shell enamel finish.

All other ceilings shall be given one coat cold water paint. All other walls shall be papered, allowing $1 per roll of paper as selected by the owner.

Plumbing

This contractor shall do all excavation necessary to accommodate his work. House sewers shall be 3″ E. H. C. I. connected to steel sewers. House drains shall be 3″ M. W. C. I. Set clean-outs in utility rooms where directed. Soil stacks shall be vented through roofs and flashed.

Water supply from street mains shall be ¾″ Anaconda or Chase brass pipe, or Byers or Reading wrought iron pipe carried 3′ 6″ below grade to meters in utility rooms.

Leader drainage shall be 3″ T. C. hub tile carried to dry wells.

Supply piping shall be Anaconda or Chase brass pipe or Byers or Reading wrought iron pipe.

Fixtures shall be Crane, Kohler, or Standard with recessed tubs.

Install in utility rooms, and properly connect to gas supply, Ruud No. 95 continuous flow water heaters with meters in utility rooms.

Heating

This contractor shall install either a Richardson & Boynton or an Arcola cabinet type hot water heating system as recommended by the manufacturer to be guaranteed to heat the building to 70° in zero weather.

Electric Work

All work shall be done in accordance with rules of the N. B. of Fire Underwriters. Feeders shall be brought in overhead to meters and panel boards in utility rooms.

Wiring shall be in BX flexible armored cable. Switches shall be toggle type. Base plugs shall be double T slot flush front type. Allow $55 for lighting fixtures to be purchased by the owner.

ANXIOUS MOTHERS

-new VICKS PLAN brings you better CONTROL-OF-COLDS

EVERY mother will welcome this further advance in the fight against colds. Years ago, Vicks brought mothers the modern method of *treating* colds—Vicks VapoRub. To-day, Vicks chemists have perfected a product based on a new idea for *preventing* colds—Vicks Nose & Throat Drops. Together, these companion products now form the Vicks Plan for better Control-of-Colds. Already, this plan is helping millions of mothers to fight colds more effectively. To lessen their number. To lessen their severity. To lessen their cost. Here, briefly, is the plan:

1 Before *a cold starts*

At that first stuffy, sneezy irritation of the nasal passages, or a child's first sniffle—Nature's warning of a cold coming on—use Vicks Nose Drops at once, as directed. Repeat every hour or so if needed. This will prevent many colds by stopping them before they get beyond the nose and throat—where most colds start.

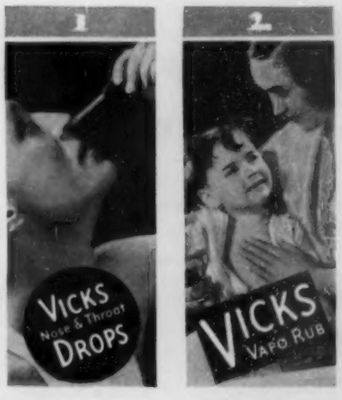
2 After *a cold starts*

At night, massage the throat and chest well with Vicks VapoRub (now available in white *stainless* form, if you prefer). VapoRub acts like a poultice or plaster and at the same time gives off medicated vapors which are inhaled all night long.

During the day—any time, any place—use Vicks Nose Drops as needed for greater ease and comfort. (If there is a cough, you will like the new Vicks Cough Drops—actually medicated with ingredients of Vicks VapoRub.) This will give you full 24-hour treatment.

Trial offer to VICKS *users*

You have Vicks VapoRub in your home. Now get the new Vicks Nose & Throat Drops and follow the Vicks Plan for better Control-of-Colds. Unless you are delighted with results, your druggist has been instructed to cheerfully return your money.



Now at about *HALF* *the usual cost* you can enjoy the many advantages of *guaranteed* high-grade rolling screens

Unobtrusive, permanent rolling screens are replacing unsightly, cumbersome, light-obstructing old-fashioned types of screens as inevitably as washing machines have replaced washboards. Possibly only their seemingly high cost has deterred you from already having them. Now even that barrier has been removed.

The new Model 50 Rolscreen has done it. The special offer outlined here makes immediate action almost irresistible. Model 50 Rolscreen is half length (for lower sash)—specially designed for inconspicuous *outside* installation in double-hung windows. It has most of the features of the regular, full-length models. Mesh is of extra-strong, electroplated, clear-vision "AluminA" wire-cloth; and the entire assembly is finished with gray, rust-resisting baked-on enamel. A GUARANTEE BOND covers every genuine Model 50 Rolscreen of Pella.

A further economy lies in the fact that you can install Model 50 Rolscreen yourself. No costly expert's services required! A hammer, screw driver and about fifteen minutes' time are all you need. Complete, easily understood installation instructions accompany each delivery.

Until May 15th, we offer you Model 50 Rolscreen for only $3.50, in any size (sash measure) up to 36 in. by 36 in.

How can you hesitate? At a hitherto unheard-of low price for a *good* rolling screen, you can now banish the twice-a-year drudgery, the daily inconveniences and the marring of window beauty which old-fashioned, wide-framed screens impose. No annual sorting, cleaning, repairing, painting and putting up; no taking down and storing. No trouble getting at flower boxes or window outsides for washing. No gaping edges. No sagging, bagging or ripping mesh. Always available . . . a pull and screen is down; release catch and it rolls up, automatically, out of the way and sight. Self-cleaning.

Buy as few or as many Rolscreens as you wish . . . screen the whole house or a few windows at a time. (We add 25c expressage per screen to above price on orders of three screens or less.) *Time payments* on the larger size orders, if desired. Dealer deliveries where convenient. Net-cost installation service available in most cities. MAIL THE COUPON—*TODAY*.

ROLSCREENS

• OF PELLA •

ROLL UP AND DOWN—LIKE A WINDOW SHADE

Rolscreen Company, 642 Main Street, Pella, Iowa

Under your special offer I might be interested in ..... Model 50 Rolscreens. Please send descriptive folder, copy of Guarantee Bond and other details. It is understood this does not obligate me in any way.

Name .....

Street..... City and State.....

Plate 11 shows the installation and use of the traverse cord

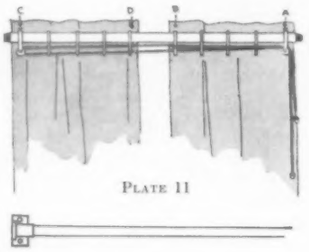


Plate 11

An expert teaches curtain making

Continued from page 7

halls, whether the front door either has glass or is of solid wood, the same style curtain is used. If the windows on either side of the door are really larger than a side light it is optional whether you use a frill top on rods, top and bottom, or a French headed curtain.

Some houses have a Colonial fan light over the door, and if this fan is really old and beautiful it should not be covered. But if it must be curtained then the following directions may be carried out satisfactorily. For a fan or arched transom use a shaped rod or a piece of bamboo the correct length for the top, and measure from this in a line straight down the center, cut your material crosswise this length, making allowance for whatever you have computed you will need for your heading and casing and adding 1½ inches for a rosette. Arrange the casing on the rod, gather the lower edges together, then turn in the raw edges and shirr them to form a rosette. Tie the shirring threads securely so that there will be no sagging of the material, then tack and conceal the fastening underneath the rosette. Plate 2 demonstrates the finished curtain if these directions have been carefully followed.

While we are on the subject of frill-top curtains let us consider for a moment frill-top organdie curtains. The headings on these are made exactly as you make the scrim curtains, but be careful not to plan the material so that the finished curtain is too skimpy as organdie is a stiff fabric, and unless the window is very small

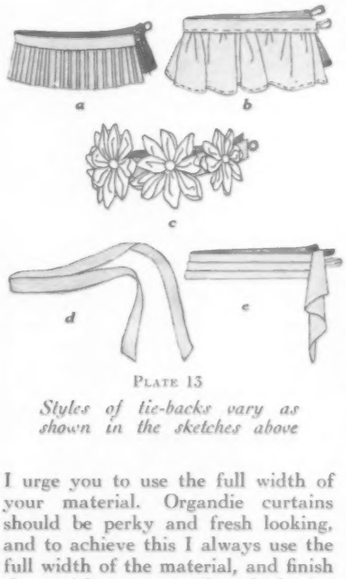


Plate 13

Styles of tie-backs vary as shown in the sketches above

I urge you to use the full width of your material. Organdie curtains should be perky and fresh looking, and to achieve this I always use the full width of the material, and finish them with narrow ruffles which give a crisp effect that is always charming, and cannot be done so attractively with any other material. For the ordinary window I use a ruffle which is 3½ inches when finished, and allow for the hems on the sides about ⅜ of an inch. In computing the correct amount to be made up into ruffles you figure this way: If your measurement is 58 inches and your material is 39 inches you have a total of 97 inches, twice which is 194 inches or 5 yards and 14 inches left over. When you have completed the making of your ruffle, you sew it to the top side of your curtain, having made a narrow hem turned onto the right

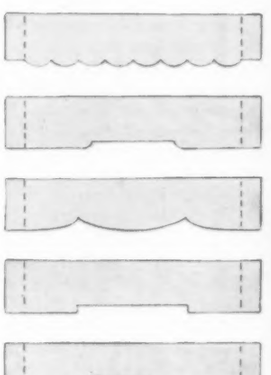


Plate 12

Plate 12 illustrates a few suggestions for shaped valances

side which this ruffle covers when placed as stated. This leaves a nice finish for the wrong side. For smaller windows, bath or otherwise, measure and make proportionally. *Do not* use a simple frill-top organdie curtain as a glass curtain. It is sufficient in itself. If your problem requires a glass curtain use scrim or like material, frill top, or a French headed glass curtain of casement cloth, gauze, or similiar suitable material. Would you put two over-draperies or two glass curtains on one window? When you answer that question I feel sure you understand the reason for my "do not." Also I do not like valances with simple ruffled organdie curtains. Their simplicity of style to me is their charm and the transparency of the material precludes the use of a valance, hence I urge that the ruffled, tied back organdie curtain be used alone. Plate I and the accompanying photograph on page 5 give a clear idea of the making and correct use of organdie curtains.

The next type of curtain which we shall undertake is the French headed curtain. This is used in casement windows where only one pair is to be put up, and (*Continued on page 50*)

Now is the time to remodel

Continued from page 31

Below are two lists showing the materials used in the remodeling of Mr. Whitman's house and the total cost of this operation. Some of the materials are not mentioned in the article on page 30 but will be next month in a subsequent article.

MATERIALS

Boiler, radiators, hot water heater—American Radiator Co.
Heat and water controls—Minneapolis-Honeywell
Oil burner—Petroleum Heat & Power Co.
Water tubing—Chase Brass & Copper Co.
Plumbing fixtures—Standard Sanitary
Pipe insulation—Johns-Manville
Cement, Atlas White—Universal Atlas Cement Co.
Plaster—National Gypsum Co.
Insulation, Cabot's Quilt—Samuel Cabot
Shingles—Flintkote
Paint—Samuel Cabot
Windows—Morgan Co.
Wiring—General Electric Co.
Sheet copper—Anaconda Copper Co.
Roofing felt—Johns-Manville

COSTS

Lumber and millwork	$454.97
Roofing materials	216.64
Hardware	32.65
Lighting fixtures	46.60
Insulation	18.00
Mason work	153.75
Carpentry	652.82
Stuccoing	400.00
Plastering	283.00
Painting	341.50
Plumbing	826.00
Tile work	200.00
Electrical work	130.80
Sheet metal work	74.52
Oak floors	100.00
Weatherstripping	41.85
Miscellaneous	14.73
Supervision and overhead	350.00
Profit, general contractor	433.78
Boiler, steamfitting	572.42
Hot water supply, with control	131.00
Oil burner, with outside tank	655.00
	$6,130.03

COMMERCE DEPARTMENT ASSISTS REMODELERS

The Committee on Reconditioning, Remodeling and Modernizing of the President's Conference on Home Building and Home Ownership has been reorganized to assist home owners, local organizations, and others interested in home improvements by means of educational work emphasizing the benefits resulting from the constructive plans for reconditioning. It will furnish information which will assist home owners of limited resources to make their homes more comfortable at relatively small expense. The committee will coöperate actively with local organizations and others interested in home modernizing campaigns of a constructive nature, and it will offer advice and coöperation on how to secure the best results when using the various general classifications of building materials.

The committee invites requests from those who are interested in the field of modernization. Communications should be addressed to the Committee on Reconditioning, Remodeling and Modernizing, Division of Building and Housing, Bureau of Standards, Department of Commerce, Washington, D. C.

A daily program for beauty

Continued from page 29

shows the effects of this dry artificial atmosphere created by the central heating systems in our modern homes and public buildings. Your winter diet, if it lacked the proper quota of fresh fruits and vegetables, may have left toxins in your blood which also make the skin sallow, pasty, or thick looking. Most of us exercise less in winter than in summer; by spring our eyes lack the sparkle and our skins the freshness and clarity that they have when we are swimming, golfing, and playing tennis regularly every day.

So for all these reasons your skin very probably looks pretty dull and uninteresting to you at this time of year. It needs a spring tonic. But we have learned that the sulphur-and-molasses type of tonic is not very palatable nor effective. Your skin will respond better to a more modern toning regime.

Therefore, I hope you will start a spring program of exercise. Good circulation is the best rouge to be had at any price. It is an excellent bleach, clearing and brightening the skin. It makes your eyes sparkle and your hair shine. Lay out a definite program of exercise—a walk every day of at least two miles, ten minutes of calisthenics every morning and night. If, in addition to this, you can also work outdoors in your garden for an hour or two, or play some tennis or golf, the effect on the general tenor of your health, and therefore on the appearance of your skin, will be even more quickly obvious.

And for that drab wintry quality of your skin, I recommend that you live for a week or ten days on a vegetable and fruit diet, with lots of milk and lots of water to drink. Particularly if you haven't been exercising throughout the winter, your system is very likely to be sluggish. A vegetable diet, high in vitamin content, will be the best means possible of ridding your system of accumulated poisons and of clearing your skin from within.

And what can you do to your skin on the outside? You must surely wash it every night at bedtime with warm water and a good soap. Yes, even a dry skin should be washed, and also a skin which has been left somewhat rough and flaky by the

Your *OWN RUGS...* *softer* than the day you bought them!

At small cost . . .

Ozite Rug Cushion gives even your *old* rugs marvelous luxury underfoot.

SOFTER *than new!* All you need is an Ozite Cushion under each rug.

Millions of hairs* — like tiny springs—give your rugs the depth and buoyancy you'd expect only of priceless orientals.

Also, Ozite makes rugs last many years longer. Eliminates friction. *Doubles* the life of all floor coverings. Thus in a short time Ozite *repays* its own low cost.

Send now for free sample. Or telephone your nearest store for this remarkable product.

Ozite
REG. U. S. PAT. OFF.
RUG CUSHION
There is only one "Ozite"—Look for this trade-mark!

* Ozite is made of HAIR by exclusive processes. Contains no jute or vegetable fibres. Be sure to see the name impressed on every square yard. Insist on genuine Ozite. *Refuse substitutes!* Ozite is MOTHPROOF. Absolutely GUARANTEED to satisfy you!

SEND FOR FREE SAMPLE!

CLINTON CARPET COMPANY AH-432
Merchandise Mart, Chicago, Ill.

Please send me FREE a small sample of OZITE Rug Cushion. Also your free booklet, "Facts You Should Know About the Care of Rugs and Carpets," including information on stain removal.

☐ Also a free Bridge Score Pad.

Name.....

Address.....

City..... *State*.....

THE GLASS OF FASHION

POPULAR DEBUTANTE

Here is a new Fostoria design in stemware, which has just been "presented to society." Tall and graceful, these glasses come in lovely combinations: amber base with crystal bowl . . . solid crystal . . . crystal base and green bowl . . . crystal base and topaz bowl . . . crystal base and wistaria bowl. They lend distinction to any formal affair. Ask to see the *new* Fostoria stemware with the "Burr" stem.

OLD-TIME CHARM

Quaint as a hoopskirt, colorful as Andrew Jackson . . . the "Hermitage" pattern is a *new* Fostoria design, *old* in the traditions of Colonial "thumb print" glass. "Hermitage" comes in charming breakfast or luncheon sets . . . And in drinking sets (glasses, decanters, shakers). In 6 colors . . . all of them surprisingly inexpensive.

FRESH FROM PARIS

This new Fostoria "plateau" center-piece for flowers together with its companion candlesticks is very chic and very modern. It contains a shallow well in which short-stemmed flowers float. It is such a relief from those tall center-pieces that force your guests to play hide-and-seek all through dinner. This center-piece, at little cost, adds much glamour to any table.

STYLE MAKER

This lady, Mrs. Elizabeth H. Russell, Hostess Editor of "The American Home" says: "Nothing has added so much color and beauty to the dinner or luncheon table as the new vogue for glassware service. And the modern hostess who would be truly smart must have a complete glassware service . . . preferably in one of Fostoria's lovely patterns."

•

To get the smartest and latest information on table settings, both formal and informal, write for the interesting booklet, "The Glass of Fashion" . . . Fostoria Glass Company, Dept. AH-4, Moundsville, W. Va.

Fostoria

A daily program for beauty

winds of winter. You will do other things, too, to counteract that dryness and to replenish the oils which correct that rough scaling. But the bedtime washing with soap and water should never be omitted. It is a stimulating as well as a cleansing treatment. It encourages the natural shedding of the dead horny scales of the outer skin and quickens their replacement by nice new pink cells from beneath, thus keeping the skin always new, healthful, and fresh looking. Its antiseptic and tonic effects help the skin to throw off infections, which thrive in pores that are sluggish and clogged with dust and oily accretions. Oh, you must wash your face every night to keep your skin young and active!

Then, if your skin is dry, if it feels stiff and drawn from the winds, if it flakes and peels, if your powder shows up rough patches, if your mirror reveals fine lines—you will use a rich face cream of the type called tissue cream or skin food. Smooth and pat it into your face for several minutes after washing and cold-rinsing and drying your skin. Pat and smooth the cream in with upward lifting strokes, to pull up a dancing flow of circulation into the skin tissues, and to counteract the natural droop of the face muscles. Stroke round and round your eyes rhythmically with the cushions of your fingertips, outward along the brows and upper lids, down across the "crows' feet" lines, and in toward the nose on the lower lid. Look *down*, while your fingers stroke the upper lids. Look *up* while you smooth cream into the lower lids. Mould cream into your neck by using the palms of both hands to stroke the neck upward with deep pressure. Use the back of your hand to pat upward under the chin.

If your skin is oily, or if you have blackheads and coarse pores, don't leave a cream on your face over night. Instead, wipe off all the cream which the skin has not taken up, and then pat your face with a pad of cotton wet with a skin tonic, skin freshener, or astringent type of lotion. But if you have dry skin, with roughness and scaling, as you are most likely to have at this time of year, leave a little of your cream on over night.

In the morning and during the day (as when you dress to go out, or when you dress for your family's homecoming at dinner time) two or three minutes of care of your skin will do much toward keeping it clear and smooth. In these daily treatments, a lotion which will exhilarate and stimulate the skin should surely play a large part, especially at this time of year when dullness and sallow color are so characteristic.

There is more than one school of thought on skin care, so you have your choice of at least two methods of treatment for your skin. Both these are sound in purpose and theory, and effective of results for many other women. You will have to experiment a little to see which of these methods reacts better on your skin. But what woman does not adore trying out beauty products?

One school of beauty specialists recommends that you use a light melty cleansing cream as the first step in your daytime treatments. This cream flows and floats into the pores with almost no propulsion on your part, and dissolves and dislodges the dust and powder and oily excretions of the skin which gather in the depths of the pores. This method of cleansing makes the treatment especially appropriate for dry, sensitive skin, just because this cream is blandly lubricating the skin all the while it cleanses. When you wipe away this type of cream with soft tissues, you will feel a thrill of accomplishment at seeing how much deep-seated dirt you have removed. Then you should pat your face and neck briskly for several minutes with a skin tonic lotion. Pat upward, with the same lifting strokes with which you apply creams. After a minute or two of this, your face looks freshly pink and clear. The treatment leaves your skin slightly moist, in perfect condition for receiving a foundation cream and make-up.

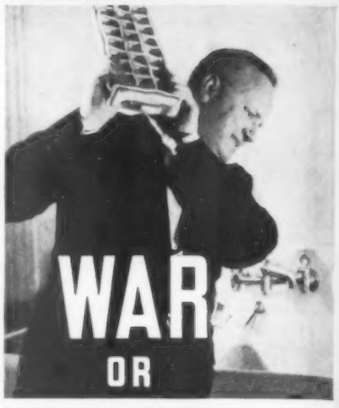
There is an alternative method of daytime treatment which also has many advantages. In this, you use a liquid cleanser on a pledget of cotton, for a zestful deep cleansing of the skin. This type of preparation is a boon to sallow skins or coarse skins, for its tingling stimulus clears and brightens the skin and has an effective astringent action on the pores. If your skin is oily, this type of liquid cleanser will constitute a complete treatment for you. If your skin is dry and flaky, you should use a cream (a cold cream, or light skin food or tissue cream) after this tonic cleansing.

Which of these theories of skin treatment will be more effective for you, only several days' trial before your mirror can tell. But I know that a few weeks of either treatment will give your skin greater clearness, a radiant transparency, that is enormously becoming in contrast with the thick dull look so many complexions have.

Winter has probably been hard on your hands, too. And when you begin your spring gardening, your hands will be crying out for care. When your hands are grimed, use one of the creamy soap-and-pumice cleansers that your husband probably keeps in a can in the garage. They are excellent to remove dirt and dead skin scales that are stained and horny. For dry hands, that are rough and chapped from exposure, sweet almond oil from the drug store, is excellent. Soak your hands in this for several minutes. Do this once or twice a week, preferably at bedtime, and leave some of the oil on your hands over night. This is an excellent treatment for brittle nails, too.

The same skin food or tissue cream you use for your face is useful as a healing and softening hand cream. Rub your hands full of it before you put on your gardening gloves. Rub your hands full of it before gardening, even if you don't garden in gloves. It will make it easier to wash your hands clean afterward. If you put a lot of cream under your nail tips, it is much easier to clean them after you come in from your seed planting. The new nail white pencils offered in the shops as a manicure accessory are a godsend for feminine gardeners who want their hands to look innocent of work the moment the garden work is done.

WHY WORRY?...we'll settle that...and How!



● **War, it used to be. Grim and ceaseless war . . . to persuade ice cubes to relinquish their tenacious hold on metal freezing trays.**

But we solved that problem—by making freezing trays out of *rubber*. And now—peace, like a healing balm, has descended to soothe the war-like spirit of other days. For this modern tray releases ice cube without a struggle—one at a time or the whole trayful.

No splashing, tugging, pulling, pounding. No melted or wasted cubes. The cubes are never shattered or broken. And because they' dry—larger—colder—and cub shaped—they last longer. They're clean and as pure as the water you use.

Since it became the smart and ultra-modern thing to equip automatic refrigerators with flexible rubber trays, more than a million progressives have turned to them. And they are now used as standard equipment by Frigidaire, General Electric, Westinghouse, Kelvinator, Copeland, and more than forty other refrigerator manufacturers. Insist that the new refrigerator you buy is equipped with this modern convenience.

Flexible rubber trays are priced as low as $1.50. See the local dealer of your make of refrigerator, or write us, giving make of refrigerator and number of ice cubes your ice tray holds. The Inland Manufacturing Company, Dept. O-4, Dayton, Ohio.

Flexo Tray
Reg. U. S. Pat. Off. Pat. & Pats. Pend.
ICE CUBES—THE MODERN WAY

"Ethel loves antiques, doesn't she?"

"Decidedly yes... if one is to judge by her bathroom toilet."

POSSIBLY you are not influenced by what your friends say. But to satisfy your own sense of refinement, may we suggest this?

Replace your old toilet with a modern, beautiful T/N at surprisingly low cost. It is unusually QUIET. Non-overflowing. In white or harmonious color.

Tank and bowl are combined—there's no unsightly wall-tank. That's why it fits in corners or under windows . . . saves space in small lavatories or bathrooms. Clip the coupon right now.

ONE PIECE WATER CLOSET SILENT NON-OVERFLOW
Patented, Pat. Pend.

T/N

ONE-PIECE WATER CLOSET

W. A. CASE & SON MFG. CO. *Founded 1853*
Dept. 224, 220 Delaware Ave., Buffalo, N. Y.
Please send me free descriptive literature on the T/N one-piece Water Closet. I am interested in
☐ REMODELING ☐ NEW HOME.

*Name*_____

*Address*_____

*Plumber's Name*_____

Frozen foods

Continued from page 22

Turning back to the table, Marian found her guest sitting with spoon poised in air, fixing her hostess with an accusing, inquisitorial eye.

"Marian Martin, these *are* fresh peaches!" she charged.

"Why, of course they are."

"And furthermore," the gray-eyed girl declared with conviction, "those are fresh strawberries you were ordering, aren't they?"

"Why, yes."

"Where do they come from?"

"Oregon."

"And I've half a hunch that those are fresh beans and peas and asparagus and spinach and corn you were ordering too."

"Yes, Winifred, they are. You see——"

"Marian, what was in that punch last night?"

"Fresh loganberry juice, orange juice, grapejuice, grapefruit juice and lemon. Didn't it taste all right?"

"Quite, but you're sure that was all?"

"Sure."

"But—this isn't July or August, is it? It's March, isn't it? Or am I all mixed up? Or are you? You're dead certain that punch was tame? You're feeling all right, aren't you?"

"Positively—whatever—Oh, I see. Winifred, my girl, I'm going to break some news to you. All that food is frozen; all the juice and fruits and vegetables were frozen last year in Oregon, Georgia, California, Texas, and Florida; all except the tomatoes and celery. They don't freeze well."

Marian broke off and began to laugh at her friend's bewilderment.

"Winifred, I didn't realize that you haven't got quick frozen foods out at Corbett Corner yet. I should have. They only started selling them here about a year ago, and just a few of the stores have them. Listen while I phone the meat market and you may get another bang. They're not at all like the old slow frozen—East 0334, please—like the old slow frozen food. Good morning, Mr. Duva. I want a frosted Porterhouse steak, about four pounds. A pound of fillets of sole. Do you have any oysters? I want the frosted ones. Well, if you get some frosted in this afternoon before delivery time send me a carton. If you don't, be sure to send me a carton of shrimp. I must have something for cocktails. Yes, that's all."

"There," said young Mrs. Martin, "that's done. I suppose you're wondering what kind of a hostess I am to be feeding an old college chum frozen beef. But you wait and see it when it comes. You know, the old slow freezing was hard on meat."

In slow freezing, Marian went on to explain as they finished breakfast and got off for the city in the coupé, the foods pass so slowly through the principal ice-forming zone, 31 to 25 degrees above zero, that there is time for large ice crystals to form from the water in the cells and these crystals break down the cell walls, damaging the structure, taste, quality, and appearance of the food. But with quick freezing at low temperatures the transition through the crystal zone is so rapid that there is little time for sizable crystals to form.

The elastic cellular walls of many fruits expand to accommodate the small crystals formed in quick freezing, but the rigid walls of such vegetables as spinach, asparagus, peas, and carrots burst. This change to the structure, however, is actually beneficial to the food, for with unfrozen vegetables 40 to 60 per cent of the cooking time is occupied with this very task of breaking down the cell walls. Quick freezing, by reducing the cooking time about half, saves much of the fresh flavor and aroma usually lost in cooking.

Because of this, frozen vegetables, it is claimed, are actually preferable to unfrozen vegetables fresh from the field, and are far ahead of vegetables which have been picked green and have spent several days en route to market. With the recent development of portable quick freezers it is possible to harvest the fruits and vegetables full ripe and freeze them in the fields immediately, so that none of their quality is lost. Some products, such as corn, however, keep better when frozen while slightly immature.

Meats and fish and other sea foods, too, reach the consumer fresher by far than so-called fresh products that have been days and weeks in transit, for the quick freezing captures and holds the freshness until the foods are thawed. Quick freezers aboard ships and on fish piers make this immediate freezing of sea foods possible.

The elimination of waste and of spoilage offsets the cost of long-time refrigerated storage. All the inedible parts are trimmed off. Only 42 per cent of fish is edible and only that 42 per cent is quick frozen; the other 58 per cent consists of heads, tails, bones, scale, and other waste. Bone and surplus fat are trimmed off the meat cuts that are to be quick frozen. The many cuts of meat now being sold sell at the same price as unfrozen meat, and the packers expect to reduce the average price of meat about three and a half cents a pound. Quick frozen fruits and vegetables sell somewhat higher in price than unfrozen produce, but with the increase of volume and facilities this will probably come down at least to par with the unfrozen price.

Some forty firms, including several of the largest food packing firms in the country, are engaged in the production and distribution of quick frozen foods, and they have been and are spending millions on plants, equipment, and research. They expect within a decade or less to build up nationwide distribution, making available to every home in the land a year 'round diet of fresh fruits, vegetables, seafoods, and meats. To accomplish this, however, hundreds of thousands of retail outlets must be equipped with low temperature display cases, and to enable the housewife to buy in quantity, to lay in a supply of frozen foods just as she purchases a stock of canned goods, low-temperature home refrigeration must be developed. The home must be equipped with a refrigerator that has one compartment maintaining 40 to 50 degrees above zero for ordinary perishables and another that maintains possibly 10 degrees above for quick frozen food storage. This refrigerator must be capable of being

Today's Impressions Tomorrow's Memories

—and in building beauty into any home WALLS *should come* FIRST

YOUR furniture, draperies and floor coverings — everything in your rooms is largely influenced in its beauty by those big background spaces, your walls.

That is why interior decorators say, "Choose your wall coverings with special care." . . . In Wall-Tex *coated fabric coverings* you find a remarkable richness of texture combined with patterns of distinctive, modern styling and beautiful pastel colorings.

Wall-Tex beauty is lasting. For Wall-Tex is easily cleaned with a damp cloth or mild soap and water. Made with a fabric backing, Wall-Tex helps to prevent plaster cracks. Tough, it is not easily scarred or torn. And its fabric foundation provides an ideal base for redecorating after years of service.

Canvas your walls with Wall-Tex, now priced lower than ever before.

Ask your decorator or dealer to show you newest patterns for the room you have in mind — or mail the coupon for samples and free booklet

WALL-TEX *fabric* WALL COVERINGS

COLUMBUS COATED FABRICS CORPORATION
Dept. T-4, Columbus, Ohio

Please send samples of newest Wall-Tex patterns and free illustrated booklet containing many suggestions on interior decoration and color chart for complete room harmony by Virginia Hamill.

*Name*_____

*Street*_____

*City and State*_____

It costs less to decorate with Sanitas

All of the new Spring styles in Sanitas Cloth Wall Covering are priced twenty per cent lower than last year.

Whether you wish to decorate a bedroom, dining room, living room, hall, kitchen or just a bath room, you will find suitable Sanitas styles in charming designs and colors.

Sanitas can be cleaned like woodwork—with a sponge. Made of strong cloth; hides wall cracks; protects ceilings; doesn't fade, peel or crack.

See the complete Sanitas line at your decorator's. Look for the name Sanitas on the Sample Book.

Write for Booklet and Samples

•

The Standard Textile Products Co.
320 Broadway Dept. 40 New York

SANITAS CLOTH WALL COVERING

Ask for a description of
THE NEW NATURE LIBRARY
Doubleday, Doran & Co.

A BOOK of HOMES
ARCHITECTURAL DISTINCTION
60 designs 3 to 8 rooms, plans, exterior views and descriptions. Designed by registered architects.
Price $1.00 Postpaid
The complete working drawings and specifications of the houses available at nominal cost.
THE ARCHITECTS GUILD 1725 MARQUETTE BLDG. CHICAGO

Inspiring FIREPLACES

For a charming home choose *first* a charming fireplace. This collection of renderings, selected by America's foremost fireplace authorities, gives invaluable guidance in choosing the correct architectural keynote for the entire interior. The edition is limited.

AUTHORITATIVE DESIGN FOLIO $1

Bennett Fireplace Corporation
Dept. B-14
Norwich, N.Y.

Frozen foods

defrosted without the temperature rising to a point at which quick frozen foods will thaw.

Besides the foods ordered by Marian Martin there are available in stores equipped for marketing quick frozen foods loganberries, raspberries, lima beans, carrots, beets, rhubarb, some hundred different cuts of meat ranging from pot roast to Hamburger steak, fowl of various kinds, various fillets and steaks of fish, lobsters and clams, and various fruit juices. Experimentally hundreds of different kinds of vegetables, fruits, meats, meat products, poultry, dairy products, and other foods have been quick frozen successfully, and some of the items are being added right along to the commercial list.

The Martin coupé rolled up the Martin driveway about 4:30 p.m. Marian and Winifred, dismounting with their packages, were greeted casually by Bert Junior on roller skates, and young Iris who shouted, "The groceries are here, mother."

Outer wear and packages discarded, the two women went to the kitchen and Marian brought the provisions in from the rear entryway.

"Look at these peas. Taste them."

"Green pebbles. They're lots greener than fresh peas, aren't they?"

"Um, icicle. That does taste like a fresh pea just out of the pod."

"Look at this steak, Winifred. If I dropped it on the floor it would smash to bits like crockery. But that's carrying the demonstration too far. I'll let it thaw a bit in the refrigerator along with——"

"Thaw? Oh, yes, and then you'll put it on the range to freeze and we'll have Porterhouse ice for dessert.

"Here are the strawberries. I wonder if you'd do something, Winifred, to make me jealous? Ever since you fed Bert strawberry shortcake down at the farm he's been raving about it whenever he sees a strawberry. Would you mind mixing us up a strawberry shortcake?"

"Why not. I suppose it'll be all right with him if I insist on baking the cake instead of freezing it."

"Silly—but let me tell you, cowgirl, cakes have been quick frozen and it's done 'em good. Soon as they come out of the oven they quick freeze them and as long as they stay frozen they stay fresh. No more stale cake or bread or other bakery stuff.

"I suppose so," agreed the gray-eyed young woman resignedly. "You'll soon be freezing everything."

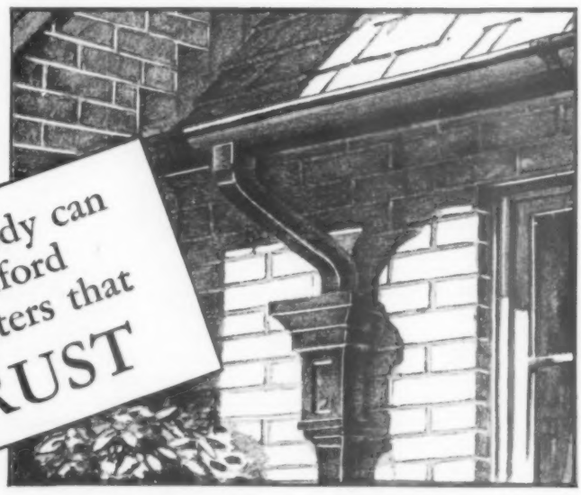
"Everything but ice, dear."

"What's that?"

"I said, everything but ice. A lot of refrigeration is done now with what they call dry ice. It's solidified carbon dioxide and it runs a temperature of about 110 below zero. They cut it up into cubes and——"

"Now, listen, sister," announced the guest from the country, "before you go any further. I'll bake your handsome brute a shortcake and I'll gorge myself on your quick frozen dinner, but if you go to dropping cubes of carbon dioxide in my drinking water I'm going home."

USE COPPER



Gutters, rain-pipes and roof flashings that rust will *sooner or later* fail. Repeated painting only delays damaging leaks and expensive repairs.

Avoid this by building or repairing with Anaconda Copper. It *cannot rust.* Gutters and rain-pipes of Copper for the average 8-room house cost only about $40 more than rustable metal—an amount saved over and over again in freedom from repair bills.

May we send the booklet, "Copper, Brass and Bronze in the Home"? Address Dept. B, The American Brass Company, Waterbury, Connecticut.

ANACONDA from mine to consumer

ANACONDA COPPER

Your health depends on it

You're mighty careful about your bathroom. Cleanliness means health. But don't be old-fashioned. Scrubbing toilet bowls is a nasty job. Once it was necessary . . . but not today!

Sani-Flush is the modern way. It's an antiseptic, cleansing powder that does cleanest, quickest work. Just sprinkle a bit in the bowl (directions are on the can) . . . flush the toilet . . . and the visible parts are spotless and sparkling and odorless. That hidden trap which a brush never cleans becomes safe and sanitary. And you have been freed of a household chore.

At grocery, drug and hardware stores, 25c. (*Another use for Sani-Flush — cleaning automobile radiators. See directions on can.*)

KNITTING WOOL
RUG YARNS
Priced Card of 400 Samples FREE
BOUCLÉ YARN—For Knitted Suits
2oz Skein, 60c—Card of 50 Samples FREE
40 SMALL SKEINS GERMANTOWN ASSORTED BRIGHT COLORS $1.00
Colonial Yarn House, 1231-K Cherry St., Phila., Pa.

ECHO BRIDGE CURTAINS
Yours for the asking . . .

. . . a generous sample of lovely NU-TONE Marquisettes

You'll love the gossamer transparency, and the shimmering lustre of these charming flat or ruffled curtains with or without ruffled valances.

Samples of our regular NU-TONE MARQUISETTE M 176—and of M 76, a new weave with heavier thread that is particularly lovely—are also yours for the asking. Then when you decide on the curtain styles and lengths you want, you can buy right from the sample at your favorite store.

MARTIN MANUFACTURING CO.
Established 1897
Boston, Mass. West Newton P. O.

Just out...

NELTJE BLANCHAN'S *big New* BIRD BOOK

A new and beautiful edition, combining in one volume the famous *Bird Neighbors* and *Birds That Hunt and are Hunted*, both standard books in their field. Illustrated with over 100 new pictures by Nellie M. Pairpoint, in color and black-and-white. $5.00

At your bookseller's, or, if more convenient, use this page as a check-list and order direct from

DOUBLEDAY, DORAN & Co. Inc.
Garden City, N. Y.

(Postage extra if books are sent by mail.)

from the "press-in-a-garden"

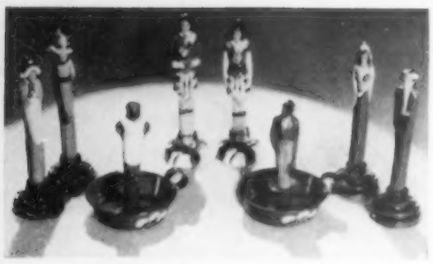
Not for nothing do these books come to you from the Country Life Press, Long Island home of Doubleday, Doran & Co. Upon their success the house was founded. Through many seasons they have proved the chief standby of those who love nature and gardens.

Your Guide to DOUBLEDAY, DORAN'S standard books on Nature and Gardening

Nature Books	**MY ANIMAL FRIENDS** *by* C. Emerson Brown	*Just out!*	$3.50	The private life of the zoo—48 remarkable photographs.
	THE REPTILE BOOK *by* Raymond L. Ditmars	*Illus.*	$5.00	Most complete book of its kind—with 400 pictures.
	THE BUTTERFLY BOOK *by* W. J. Holland, Ph.D., Sc. D.	*Enlarged*	$10.00	A popular guide to butterflies—with 70 color illustrations.
	THE FROG BOOK *by* Mary C. Dickerson		$5.00	Toads and frogs—their life-histories. 300 photos.
	THE TREE BOOK *by* Julia Ellen Rogers		$5.00	A guide to trees—illustrated in color and black-and-white.
Flower Books	**THE AMERICAN FLOWER GARDEN** *by* Neltje Blanchan	*Large Octavo*	$3.00	A classic of garden literature—92 full-page pictures.
	RAINBOW FRAGMENTS *by* J. Marion Shull	*Illustrated*	$3.50	Standard garden book of the Iris by a leading breeder.
	THE ROSE MANUAL *by* J. H. Nicolas		$3.00	The encyclopedic book of the rose. Charts and pictures.
	THE GLADIOLUS BOOK *by* Forman T. McLean, Wm. E. Clark and E. N. Fischer		$5.00	The gladiolus—its history, varieties, culture and care. *Illus.*
Garden Books	**THE GARDEN BLUE BOOK** *by* Leicester B. Holland		$3.00	A handbook to continuity of bloom throughout the seasons.
	ADVENTURES IN MY GARDEN AND ROCK GARDEN *by* Louise Beebe Wilder	*Octavo*	$5.00	One woman's interesting experiment in planting wild flowers.
	THE COMPLETE GARDEN *by* Albert D. Taylor	*Large Octavo*	$6.00	When, where, what and how to plant. Lavishly illustrated.
Pocket Guides	**LAND BIRDS EAST OF THE ROCKIES** *by* Chester A. Reed	$1.25—*Fabrikoid*,	$1.50	Standard guides—strongly, flexibly bound to fit in bag or pocket. 3¼ x 5½ inches.
	WATER AND GAME BIRDS *by* Chester A. Reed	$1.25—*Imitation leather*,	$1.50	
	FLOWER GUIDE *by* Chester A. Reed	$1.25—*Imitation leather*,	$1.50	
	TREE GUIDE *by* Julia Ellen Rogers	$1.25—*Imitation leather*,	$1.50	

Shop Windows *of* To-day

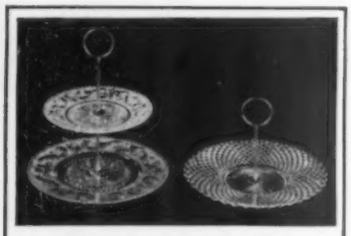
by DIANA NORTH



A PAIR of the picturesque figures above would add a refreshing note of novelty to your room, and as they are candles will prove useful as well as ornamental. The Mammy and Darkey cost $1.75 apiece with the candlestick or $3.50 for the pair, or the pair without the candlesticks can be had for $1.75. The other candles are sold only in matching pairs, Priscilla and John Alden, the Scottish Highlanders, or Toreador and Spanish Lady—all $1.75 a pair, or $2.25 a pair with the colored glass bases. EDWARD L. SEIP, INC., *48 East 46 St., N. Y. C.*

Very clever is this new circular wall bracket for not only can it be used for holding either a flower pot or a candle, but it is possible to obtain it with either the rods mounted on the left or right. One of each, therefore, would make a balanced pair for either side of a mantelpiece mirror or console table. The bracket was executed by the Chase Brass & Copper Company from the designs of Walter Von Nessen, well-known modern designer. The circle is copper and a note of color is contributed by the two round blue-green enamel rods attached to the larger brass one. Circle measures 9¼″ in diameter. $4.75, express collect from the HAWTHORN SHOP, *147–19 Hawthorne Avenue, Flushing, N. Y.*

wise dull monotony of a blank wall of terrace or porch. The sprightly bird, the watering can, or the duck, all measure 8″ to 10″ over all, and the circular bracket for the flower pot is 4¾″ in diameter. Price $1.75 postpaid each from H. TUTTMAN, *103 Allen St., N. Y. C.*



SERVITORS

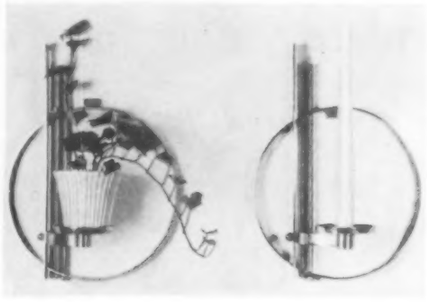
Sparkling Reproductions of Early Glassware

These new and ingenious glass Servitors add charm and distinction to a service of sandwiches, appetizers, cakes or candies. Non-tarnishable metal handles. Single and double deck styles. Lower plates measure 10½″ in diameter; upper plates 8″. Height over all 12″.

No. 1 (*Left*) "Sandwich" Glass reproduction. Double deck.....$4.95
Single plate.....$3.95
No. 2 (*Right*) "Waterford" Glass reproduction. Double deck.....$2.95
Single plate.....$2.50

Shipped express collect.
Safe delivery guaranteed.

THE boulevard shop
141-05 Northern Blvd., Flushing, N. Y.



STUDY INTERIOR DECORATION AT HOME

SIX WEEKS PRACTICAL TRAINING COURSE

Authoritative training in selecting and assembling period and modern furniture, color schemes, draperies, lamp shades, wall treatments, etc. Faculty of leading decorators. Personal assistance throughout. Cultural or Professional Courses.

Home Study Course
starts at once : Send for Catalog 12A

Resident Day Classes
start July 6th : Send for Catalog 12R

NEW YORK SCHOOL OF INTERIOR DECORATION
578 Madison Avenue, New York City

CHATEAU EMPIRE

Another Chateau creation scores as the season's most attractive lamp. Graceful Empire lines that add beauty to any setting. Base may be had in jet black, alabaster white or jade green glass. Filigree ornament is oxydized silver plate. The shining gold amber glass mirror ball ends all depression with its brilliant cheer. Fourteen-inch parchmentized shade decorated in black and gold on light gray. Stands about 22″ high, and astonishingly priced, postpaid for only..... **$4.35**

Ask for Chateau booklet

CHATEAU GLASSCRAFT, INC.
Dept. A. Point Marion, Pa.

YARD INCINERATOR *and* RUBBISH BURNER

Of heavy aluminum-fused metal—will last for years—burns paper, leaves, grass, garbage, etc. Lights at top—burns downward—requires no fuel. Sparks cannot escape. Ashes removed from bottom after several burnings, and act as plant fertilizer. Solves garbage problem wherever no disposal is available. No. 1 Size holds 1½ bushel, weight 60 pounds, price $15.50. No. 3 Size, 3 bushels, weight 115 pounds, price $28.85. No. 6 Size, 6 bushels, weight 175 pounds price $49.50, F. O. B. South Bend, Ind.

Approved by Good Housekeeping Institute

Price $15.50

F. O. B. Factory cash with order

The Malleable Steel Range Company
South Bend, Ind. Dept. A-4

This Magic PAPER Dusts, Cleans and Polishes, *all at once*

Sample *FREE*

NO NEED NOW for dirty dust cloths or sticky polishing cloths. Nor is there need to do your dusting, cleaning and polishing in 3 separate operations. Do it ALL AT ONE TIME with the new **CP**, "The Wonder Paper" which is an especially prepared "Paper-Cloth" treated for daily dusting, cleaning and polishing. This new discovery--soft as linen--does not leave lint, and polishes to a beautiful lustre. Women by the thousands are turning to its use--learn how much work it will save you.

A big 25 yard roll 50c at your better stores, or postpaid from us.

FREE

A colorful 42 page book, brim full of really new ideas sent free for the names of your better stores.

Address Dept. H.A.

KALAMAZOO VEGETABLE PARCHMENT CO.
KALAMAZOO, MICHIGAN

Chippendale Mirror

One of the better-made reproductions. Frame has two lines of inlay, solid Mahogany or Walnut.
Size over-all, 20″ x 37″, glass 14″ x 24″.
PRICE $17.50 express collect.
All our reproductions are hand-made and hand-finished dull-rubbed.

Made by:-

W. B. Hearthway & Sons
Snow Hill, Maryland

making a garden with practically no space at all?

Flower borders for little plots, the small garden well done, a garden on $25—no end of help and suggestions for you in every issue of *The American Home*. $1 a year. Address, Garden City, N. Y.

Shop Windows of To-day

Avoid Spinal Injuries

... painful and costly fractures, sprains, bruises. Hundreds of permanent disability cases are the result of bathtub accidents . . . Bath-Grip prevents falling in slippery tubs. An attractive rubber mat, in White or pastel shades of Rose, Blue, Green, Orchid and Orange. Sold at your local dept. store or sent prepaid on receipt of money order or check. **$1.00**

CHARLES B. BRINKWORTH
592 EAST FIRST STREET
South Boston, Mass Dept. C

Your garden will be incomplete without a sundial, so I am showing this unusual one which was discovered on a recent visit to old Brasstown. The quaint inscription reads "Grow old along with me, the best is yet to be." It is made of highly polished brass, which will obtain a lovely patina after some use out of doors. 10″ in diameter. Price $4.25 postpaid from ADOLPH SILVERSTONE, *21 Allen St., N. Y. C.*

New Iced Appetizer Set

Now you can serve in the latest style tomato juice, fruit or crabmeat cocktails, in fact, any chilled appetizer.

The practical feature of this set is the three partitions holding the ice and either bowl or glass in place. Clear crystal, cool green or sparkling topaz in the "thumb-print" design which is typical of substantial Early American glass now fast coming again into vogue.

	Tall glass for fruit juices, cup glass for crabmeat, etc.		Ice bowls, plates, two glasses	Without plates
☐ Crystal or ☐ Green Set	for	4	☐ $ 4.75	☐ $ 3.35
		8	☐ 9.50	☐ 6.60
		12	☐ 13.75	☐ 9.75
☐ Topaz Set	for	4	☐ 5.50	☐ 3.75
		8	☐ 10.00	☐ 7.25
		12	☐ 15.00	☐ 10.50

Plates only ☐ Crystal or ☐ Green $4.50
☐ Topaz $5.00 a dozen

DANIEL LOW & CO.
203 Essex St. Salem, Mass.

Sent prepaid on receipt of price. Check color and quantity desired. Money refunded if not pleased.

TUTTMAN
CARD RECEIVER OR CANDY DISH
3¼″ high. 11″ long.
Hand hammered.
Brass or copper.
$1.35
Shipping Charges Collect

Write for Catalogue
Dept. A
103 Allen St.
New York

The two-lipped Russian jug may be used as a water pitcher, as the inside is pewter-lined. Height 7″, capacity two quarts. In brass or copper $4.50 express collect. The hand-hammered brass vase has several rows of copper bands as decoration, or it may be had in copper with brass trimmings. $3.00 express collect. Pitcher can be had in the same combination and is pewter lined. 4¾″ high, capacity ½ pint, $2.00 postpaid. All from B. PALESHUCK, *37 Allen St., N. Y. C.*

CHARM FOR YOUR HOME
. . . convenience for your friends in a
RUSTIC MARKER
for as little as $9.75
Prepaid

Height above ground 2 feet. Width overall 19 inches

Of course you want a marker for your home! That is only proper consideration for your friends . . . not to mention freedom from the nuisance of having tradesmen call at your home by mistake.

But why not have a marker that will enhance the beauty of your grounds . . . a marker that will blend with the landscape . . . a marker that is durable? The design illustrated at only $9.75 is made of Douglas Fir (rated by the U. S. Government as one of the most durable woods), stained Old English brown, with wrought iron bracket . . . underground portion creosoted to prevent rot. Name hand-painted.

We also have other rustic designs with wrought iron fixtures, large lighting standards, street markers, guard rail fences. Send the coupon today for our illustrated literature.

HATHEWAY-PATTERSON CORPORATION, Dept. D
225 Varick Street, N. Y. C., N. Y.
( ) Enclosed is check for $9.75 for my Rustic Marker
with this name on it.....
print clearly name you want on marker
( ) Please send me free of charge your illustrated literature.
Name.....
Address.....

A wonderful book of home plans, 219 designs, 600 illustrations of floor plans and photos of American and English Colonial homes, cottages, bungalows and duplex dwellings, an ideal reference book showing size of rooms and building and a description of each, with approximate cost to build, postpaid only $3.00. A new folio, 50 designs of medium cost American and English Colonial homes and other medium cost dwellings, $1.00. Both for $3.50.

FREDERICK H. GOWING, Architect
101-A Tremont Street Boston, Mass.

ENDS CALLOUSES
They Gently Fade Away

Corns and Callouses yield at once to the wonderful medication in this thin, comfortable adhesive fabric. You walk, play, dance in comfort. No more nagging foot pains. This soothing
Medicated Adhesive Surface
absorbs all hard growths without injury to healthy tissue. Antiseptic, healing. Big spool, 60 square inches. Send $1.00 and if not satisfied after trying get full refund.
COMFITAPE LABORATORY
Box A-4 Burlington, Vermont
MEDICATED Comfitape

for your GARDEN

Enduring, beautiful, high-fired Terra Cotta brings new interest to the garden, sun room or interior. *Send 10c for illustrated brochure.*

Estab. 1810
GALLOWAY POTTERY
3214 Walnut Street, Philadelphia

Mathews WINDOW GARDEN

A substantial practical window conservatory for seedlings and small plants. Fits nearly all standard double sash windows. Easily assembled by anyone—no carpenter required. Shipped flat with glass installed, finished with prime coat of white paint ready for finish coat in color to match house.

Full directions for assembly and use supplied. Can be installed from inside the room in apartment houses, etc., where height from ground would make installation from outside difficult. Neat and attractive in appearance.

May be used for potted plants all the year round. Ideal for the miniature or Japanese gardens now so popular. By raising lower sash of window room heat enters the conservatory.

Shipped prepaid with full instructions for $12.00 (send check or money order). Be sure and give size of lower sash of window measuring from center to center of window casing and from sill to top of frame of lower sash.

The three removable trays measure 19⅝ x 11¼ inches each, and are 3½ inches deep.

Descriptive circular on request.

Mathews Bros. Co., Belfast, Maine

A Corn Shuck Bottom

Foot-stool of unusual price and extreme usefulness.

Well made and attractively designed, it is just the piece for that vacant space before a chair, by the fireplace or in the corner.

Maple finish, 11½″ high, 13½″ square.
$3.50 postpaid.
E. E. Burroughs Company
Conway, S. C.

MINIATURES
ON PORCELAIN OR IVORY
A Priceless possession or ideal gift

A miniature on porcelain, square or oval, beautifully colored, 3¼ x 4¼ inches including gold plated frame, regular $40.00, for..... **$17.50**

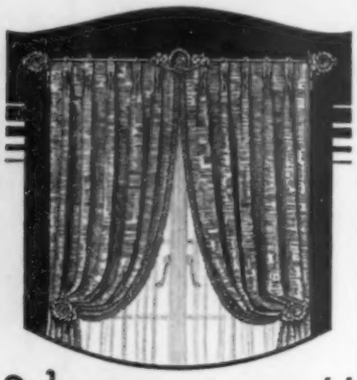
Write for Booklet A. H. 13
AIMÉ DUPONT GALLERY
Established 1884
509 Fifth Avenue, at 42nd St., N. Y. C.

FLOWER CUP » »

A copy of an ancient ceremonial prayer cup for choice flowers. In rich, gleaming tones of hammered solid brass or copper. 5″ high, 4¾″ wide at top. **$1.75 postpaid.**
Large size 6″ wide, $3.75
Send for catalog R4

ADOLPH SILVERSTONE, Inc.
Est. 1808—Oldest Shop in "Brasstown"
21 Allen Street New York, N. Y.

GARDEN FIGURES
of
best grade terra cotta
— weatherfast —
harmoniously colored
GNOMES - ANIMALS - TOADSTOOLS
Floating Ducks, Swans, etc.
Novel Plant Stakes
Pamphlet A free — Complete Catalogue $1 refunded on return
F. B. ACKERMANN, Importer
50 Union Square New York City



Windows that add Beauty and Charm to your home

WOULDN'T you like to have windows that everyone admires? Windows whose draperies have that tailored, expensive look? Windows whose drapery fixtures harmonize with the other furnishings of your home?

A new booklet tells you how to obtain these beautiful effects—easily and economically—right in your own home—with the newest, smartest draperies and Judd Drapery Fixtures.

Send for your copy of this helpful booklet.

Please enclose ten cents (stamps or coin) to cover mailing cost.

H. L. JUDD COMPANY, Inc.
87 CHAMBERS STREET NEW YORK CITY

The comforts of home

Continued from page 10

Proper artificial lighting spells comfort in these days when so many people only grow to know their homes at night. Charming lamps may be had at unbelievably low prices, so there is no excuse for the glaring, old-fashioned central chandelier. If you have one of these in your home, simply ignore its existence and insert a few base plugs.

The natural lighting of your room is something which you cannot often change radically but which you can influence by your selection of curtains and by the proper placing of your furniture. For example, rooms which face north or which have little sunlight for some other reason are often improved by glass curtains of warm apricot or gold gauze. A room which has too much sunlight may be tempered by pale green or beige curtains.

Do not crowd the dining room with too much furniture. If you are buying new dining room furniture, your selection should be scaled to fit its surroundings.

Comfort in the kitchen is, indeed, essential to the peace of your household. So many articles have been written on this subject that we feel it may be dismissed in a cursory manner. A kitchen which has good natural light is a pleasant place in which to work but one which is dark should be provided with proper artificial lighting. The placing of the equipment where it will save steps is most important. The comfort of the kitchen may be increased greatly by the purchase of the efficient tested appliances in the line of dishwashers, stoves, and automatic refrigerators.

A comfortable bedroom is something to anticipate with pleasure at the end of a hard day's work. A good spring and mattress are a real investment, even if one is forced to economize in some other direction. If two people occupy a bedroom, it is a great saving of nervous energy to have two chests of drawers.

Two clothes closets will also make the wheels of domesticity run more smoothly, but this is not always possible. If there is no way of building a second cupboard, the closet which is shared should be equipped with special care. For instance, it is a good idea to install two clothes poles, running from front to back, instead of one long one which is usually fastened to the side walls. A double set of shelves is also a help. Speaking of closets, every woman's room should have one long mirror, even if it must be placed inside the door.

The bedroom telephone is a mooted question. Many women consider it indispensable, but those with inconsiderate friends who telephone at all hours object to its installation. Weighing the pros and cons, it seems to us that the good points overbalance the others. It certainly gives a feeling of safety in emergencies to know that a telephone is right at hand.

All the aids to comfort in the bedroom which have been mentioned here apply equally to the guest room, with the possible exception of the telephone.

PROTECT FLOORS
RUGS • CARPETS

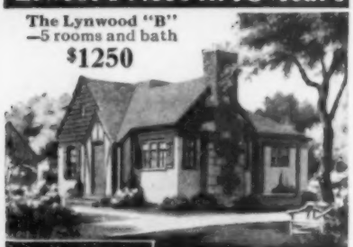
Save expensive refinishing of floors and damage to rugs and carpets by installing No-Mar furniture rests on the legs of your furniture. They spread the weight of the furniture on their smooth, unbreakable Atlasite bases protecting floors, rugs, carpets. NoMars are easy to put on—never mark floors—are good looking. Buy them at your nearest hardware or house furnishing store, or write us for information.

THE BASSICK COMPANY
Bridgeport, Conn.

Bassick
NoMAR Furniture Rests

Lowest Prices in 10 Years

The Lynwood "B"
—5 rooms and bath
$1250



MODERN HOMES at MILL PRICES

Now, new "Van Tine Service"—the perfect Home Building Service. Your home built complete—ready to move into—easily, safely and at one-third less cost! Many are saving $500 to $1500.

Choose from 100 prize designs or let us design your home from your own ideas—FREE. Your choice of brick, wood, stucco or combinations. We supply finest guaranteed materials and strongest construction to meet all building codes.

Mill Prices—you buy direct from our 5 great Mills at today's low wholesale prices. One order buys your home complete. No extras!

Finest Modern Features. Oak Floors, Warm Quilt Insulation, Built-in Kitchen Units, Linen Closets, Clothes Chutes, etc. More comfort—less work for the housewife.

Send for
FREE BOOK
100 HOME PLANS

Gordon-Van Tine Co.

World's Largest Specialists in Home Building Since 1865

1619 Case St., Davenport, Iowa

Check free books wanted: ☐ Homes, ☐ Garages, ☐ Summer Cottages, ☐ Book of 5000 Bargains in Building Material.

Name.....

Address.....

BUILDINGS OF DISTINCTION FOR EVERY PURPOSE

If your desire for a summer home includes modern design, fine materials, careful workmanship and immediate delivery and erection—examine the Pope & Cottle Company line. Here you will find all types of buildings to suit your every need, or—we will create an individual design for you.

Write Department E now for new illustrated catalog giving description and prices of distinctive cottages, log cabins, cabanas, playhouses, poultry houses, greenhouses, and garden furniture. We know you will be interested.

POPE & COTTLE COMPANY

Revere Beach Parkway, Revere, Mass. 295 Madison Ave., at 41st St., New York City

Now! Friendly FIRESIDES for ROOMS without FLUES

FIREPLACES can now be had even in rooms without flues or chimney openings! The new Columbia Portable Mantelpiece comes ready to place without cutting the wall. When used for decorative purposes only, these fireplaces cleverly simulate the flickering glow of a real fire by means of an ingenious light arrangement. For practical use gas or electric heating units may be installed. A glowing fireplace will contribute more of comfort and homelike atmosphere to your living room or bedroom than any other feature you might add. Write for free catalog of Period Adaptations. The Brecher Co., 431 W. Jefferson St., Louisville, Ky.

COLUMBIA MANTELS

Modern Plumbing Beyond Sewer Lines

Write today for complete details on how San-Equip Sewage Disposal Systems permit you to enjoy modern plumbing conveniences in any house with running water. Learn how San-Equip safely disposes of all waste, protects health, adds to living comfort. Learn about San-Equip "Certified" Systems that assure you against annoying breakdowns and provide more durable, dependable service than ordinary septic tanks. It will pay you in money savings, in conveniences, in health. Write for complete free details. San-Equip, Inc., 734 E. Brighton Ave., Syracuse. N. Y.

San-Equip
Certified Sewage Disposal

KEEP LAMP & RADIO WIRES OFF FLOOR

NEW EASY WAY
A neat job instantly. No damage to woodwork. No tools needed. Set of eight colored clips to match your cords. 10c.

JUSTRITE PUSH-CLIP
Fits Back of Moulding

FITS BACK OF BASEBOARD OR MOULDING

If your 10c store or hardware dealer cannot supply you, mail stamps to us.
JUSTRITE MFG. CO., 2[illegible] Southport Ave., Chicago

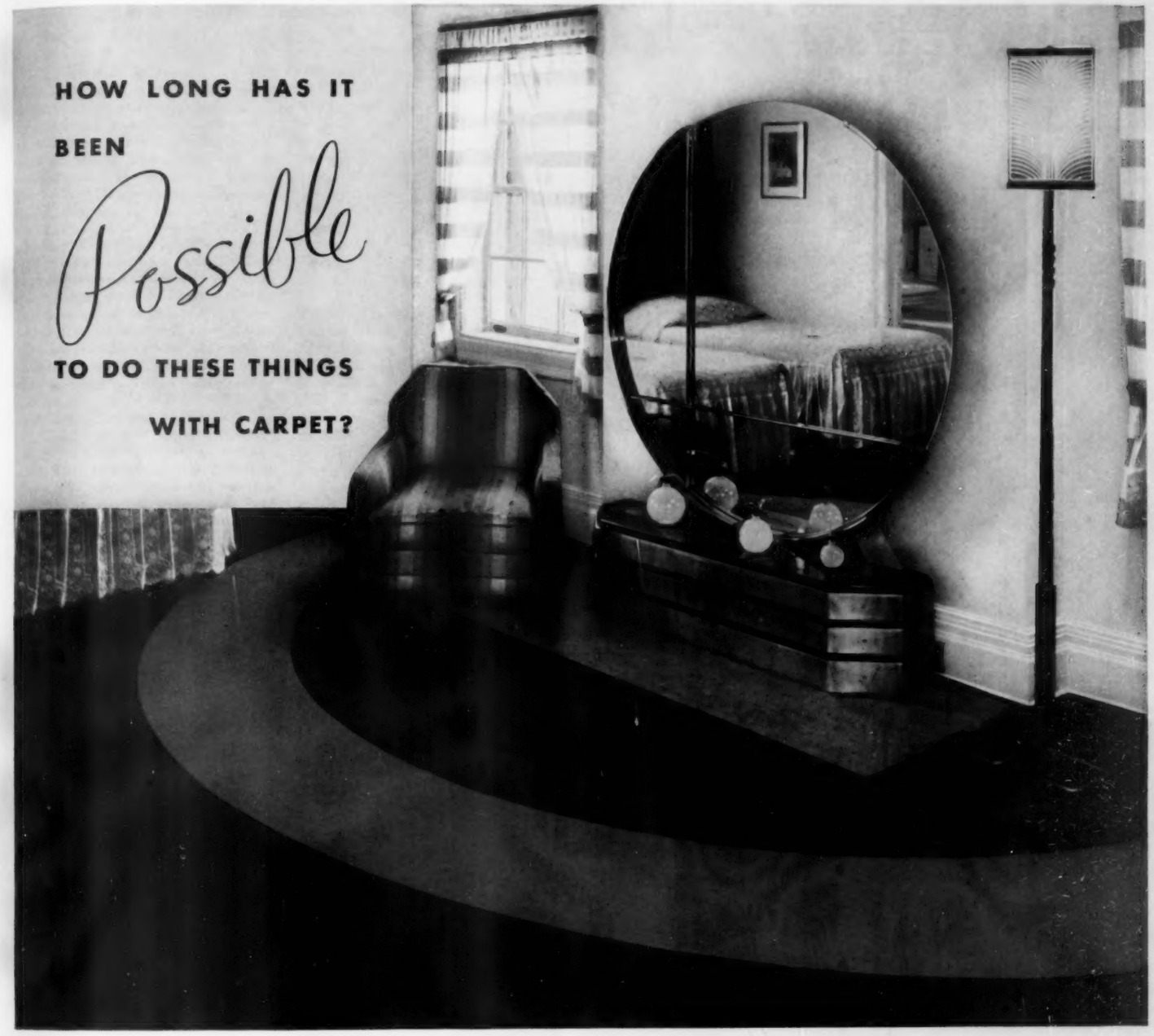
CLAY

SUNSHINE CLOTHES DRIER

BEAUTIFY YOUR YARD

Gently turns in the breeze—drying entire wash evenly and spotlessly clean. Stand in one place to hang up entire wash. Folds like an umbrella to store away. 135 ft. finest line. Turns in only 15 ft. of space. Does away with unsightly clothes poles. Illustrated folder A-330. FREE.

Clay Equipment Corporation, Cedar Falls, Iowa



This color photograph was taken in a home in Forest Hills, Long Island. The Collins & Aikman Carpet, in Tuscan red, marine blue and gray, was furnished and laid by R. H. Macy & Co., New York.

If Collins & Aikman Carpet had been "just another carpet" when it was introduced two years ago, it would hardly have created such a commotion. But people possessed of decorative imagination quickly saw that here was a new decorative medium — and proceeded to get more and more stirred up about it.

They had good reason. Here was a *new kind* of soft, quiet carpet — one that was much more exciting than its cost would lead one to expect. Collins & Aikman Carpet sells at the moderate price of the old-fashioned strip carpet that had to be stitched together. But while it comes in 54-inch widths, it never shows a surface marred by stitched seams when laid.

Sections are joined by a new process which gives an unbroken broadloom appearance. A new phrase has come into the language to describe the result. Collins & Aikman Carpet is *seemingly seamless.*

Any number of colors may be combined, to give special effects such as the one in the photograph above, *without the excessive cost of special weaving.* Individual designs, inlaid crests and monograms, special borders — or plain-color broadloom effects in rooms of any size or shape — all these things are now practical with Collins & Aikman Carpet.

Every day we get more requests for our illustrated booklet, which deals more fully with the decorative significance of this new carpet, tells of its durability and economy, of the ease of cleaning afforded by its dust-proof, moisture-proof back. We'll be glad to send you a copy, if you'll write to Collins & Aikman Corporation, 25 Madison Avenue, New York City.

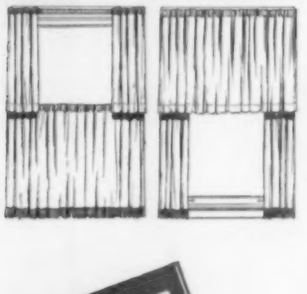
The Seemingly Seamless **COLLINS & AIKMAN CARPET**

© 1932

USED AND SOLD BY LEADING STORES AND INTERIOR DECORATORS

Within *Easy Reach* of Every Woman!

Note the charming variety of effects to be had with Kirsch Traverse Rods. Open or close, top or bottom — or both—of windows —all at a touch of hand or cords!



the Beauty and Convenience of Draw Curtains

Everybody wants more light, ventilation and privacy. And *now*, that Kirsch offers practical traverse (draw cord) rods, there is no reason why every home should not enjoy the beauty and convenience of draw curtains and draw draperies. Tell your Kirsch Dealer you would like to see—

Kirsch TRAVERSE DRAPERY HARDWARE

The traverse equipment is hidden in all Kirsch Traverse Rods. You open or close curtains or draperies—all at a touch. No sagging cords—nothing to get out of order. Curtains and draperies overlap at the middle to insure absolute privacy.

Kirsch Traverse Drapery Hardware comes in extension and cut-to-measure styles. Cut-to-Measure Traverse Drapery Hardware is made to the exact measurements of each window for a permanent installation.

Kirsch Extension Traverse Drapery Hardware Sets are popularly priced, and come to you fully assembled and ready to put up. All you have to do is hang the draw curtains and draw draperies. Available in sizes to fit windows from 20 to 86 inches —in single, double and triple styles.

Also included in the complete Kirsch line are "Gold Seal" Kirsch Extension Rods, Atavio (ornamental) Sets, Wood Pole Sets, Wood Cornices, and the latest Kirsch innovation—Cornice Pole with Extension Traverse, each and all insuring artistic window treatments.

Get Your Copy of This REMARKABLE BOOK

This is a beautifully illustrated $1.00 value book. Its 80 pages are brimful of information and help. Written by the leading authority, C. W. Kirsch, and answers virtually every question on window draping, colors, styles of materials, etc. To get your copy of this *limited edition*, send 25c today to cover the actual cost of placing the book in your hands.

KIRSCH COMPANY—357 Prospect Ave., Sturgis, Michigan, U. S. A.

You may send me the 80-page book by Kirsch, "How to Drape Your Windows." 25c is enclosed.

Name.....

Address.....

City.....*State*.....

An expert teaches curtain making

Continued from page 40

sometimes for more formal glass curtains instead of the frill top. The material may vary, but the way it is made, never. The bottom hems and the inside edges are made like the scrim curtains, but the big difference is in the hems at the top. These are stiffened with crinoline, paper muslin, or some similar material, to hold up the French plaits. The hem at the top varies according to the height of your window, which, in turn, controls the length of the curtain.

For the average window, for which you are putting up a gauze curtain 3 to 3½ inches is a good depth for the hem at top. Since these are glass curtains you must make them wide enough to draw and meet in the middle. To secure the proper width you must take one half the width of your window, and the whole of your material, minus your hems, and figure the width to be taken for your first plait, then compute how many times this amount must be repeated, allowing approximately 4 to 4½ inches between the plaits and having a fairly even number of these. To make the French headed top you first insert your stiffening lengthwise in the hem, then measure according to your computation, and stitch the depth perpendicularly on your hem. This gives you a tubular effect which you pinch in two places, giving a three-pinch effect, then sew it securely on the wrong side, and place a ring midway on the plait and sew it on securely. At the junction of the top hem and the inside hem is placed a ring which is mounted on a metal bar. This holds up the hem at the center on both the right- and the left-hand curtains so that when they are drawn together they connect neatly without sagging in the center. Depending upon your material, shot may or may not be used in the bottom hem or a weight placed in the mitered corners of your curtains. Plate 10 shows the process of securing a French plait, the position of the ring on the hem, and the type of bar and ring to be placed at the hem junction. While we have discussed this style of curtain as a glass curtain the same method is applied to the making of a casement cloth curtain, or any unlined French headed curtain. When you use a French heading on overdraperies you must allow for a "return" of about 3 or 4 inches, which will make a slight change in computing your plaits. I also suggest that the top hem be 4 or 5 inches deep in this case, instead of the 3 or 3½ used for glass curtains. The photograph at the bottom of page 7 shows the use of simple frill-top scrim glass curtains on the same window with unlined French headed chintz curtains which extend to the bottom of the apron.

Another use for the French heading is with a French headed valance, where, in some instances, the plaits are arranged around a pattern rather than evenly spaced as I have just described. This gives a pleasing variety to the draperies, and also allows us to enjoy the full beauty of the pattern of the chintz. Both the center photograph and Plate 9 on page 7 show clearly what I mean. For a room which demands a bit more formality than an organdie curtain can give but which must be light and not stuffy an unlined French headed chintz curtain, as shown in the top photograph and Plate 8 on page 7 works out to great advantage. These are suitable for our dining room with the scenic paper.

In the foregoing we have discussed curtains which require plain material until this last mentioned chintz curtain. Let me stop here to say that in all materials which have a figured pattern you have to measure and plan so that your figures come in the right position on all the curtains in the room. The amount which will be wasted varies with the length of your repeat.

Let us now study valances. The French headed valance has been covered, so we will proceed to the shirred valance which is really the simplest to make at home. We rarely have to consider the pattern if it is a small one, because in the gathering or shirring the repeat is lost, but if you have a decided pattern be careful. In measuring for a shirred valance you allow twice the width of your window, plus one half again, for fullness. Thus, if your window is 36 inches wide you allow a yard and a half to two yards for shirring. The depth you have already decided upon. You must also gauge the fullness somewhat by the type of material you are using, whether it is stiff or sheer. This valance is simple to make and can be done to look very professional if you will study carefully the photograph accompanying sketches (Plate 7) on page 6. The finished product may be hung on a valance board, as shown in sketch "c" or it may be made with just a casing, and hung on a double rod which may be bought at any department or hardware store. This is illustrated in sketch "d."

The side curtains are either finished with plaiting as shown in the photograph, or can be bound or finished in many other ways. The rings must be attached at the finished top edge at even intervals as you may see in sketch "b", which illustrates this point clearly. These curtains may be looped back over metal tie-backs, or a tie-back of material may be used and attached under the finish to an ordinary cup-hook in the trim. Styles of material tie-backs vary as are shown in the sketches on Plate 13 on page 40.

We can now consider the making of shaped valances. These are not hard to accomplish if the material is plain as all we have to do is to decide on the shape, but if you have a figured material to consider it is not so easy, as the shape must be designed around the pattern. The sketches on Plate 12 illustrate a few suggestions for shaped valances. Whatever design you choose your valance when shaped must be lined and interlined with stiffening. The side curtains are made the same for windows with shirred valances as with plain valances, whether they are to be plain or trimmed. There are other styles of curtains, but the foregoing are practically the only ones that can be safely attempted at home even with the aid of a seamstress.

An expert teaches curtain making

Just a few words about tie-backs. With the simple ruffled organdie curtains I prefer what I term an "apron-string" tie-back which is just a straight piece of material finished and tied around the curtain, and looped over the faithful cup-hook, as shown in "d" on Plate 13. For other curtains we can use what looks best and makes the most pleasing effect.

On the subject of hardware we have the valance board as shown in sketch "c" on Plate 7 (page 6), which is very simple as it has just an angle iron which is screwed to the side of the trim, and attached to a board 2 or 3 inches wide and ½ to ⅝ of an inch thick, depending upon the style of the valance that is to be attached to it.

Plate 11 shows the installation and use of the traverse cord. If the following directions are carried out, and you glance from time to time at the sketch I think you will find it quite simple. Rings should be amply large to accommodate both rod and cord, so that after the rings are sewed on and put on the rod they may slip easily. You then take a piece of cord equal in length to four times the width of the window, and slip it through the pulley, "A," and knot it around the ring "B." Then pass the cord through the intervening rings, and bring it back to the pulley "C," return it through the rings and knot around ring "D" and back again through rings to pulley "A." To hold the ends of the two cords in place decorative weights are used, the most usual shape being of acorns or drops.

On both outer edges of all curtains a very tiny brass ring is sewed so that when this edge is pulled taut and hooked on to a small corresponding hook or tack placed in the proper spot on the trim (for short curtains and on the baseboard for long curtains) it holds the curtain firmly in place at its outer edges.

Chintzes illustrated in frontispiece

In describing the chintzes shown on page 4 we shall consider first the six panels in the upper left-hand half of the page, starting at the upper right-hand corner and working diagonally across the page to the lower left-hand corner:

Glazed chintz, 36" wide. The ribbon stripe, which is the motif of the design, comes in blue, terra cotta, or nile green. This chintz is only $.50 a yard.

Glazed chintz, 31" wide, coming with four different colored backgrounds—yellowish tan, blue, green, or putty, with a 23" repeat. The price is $1.20 a yard.

Glazed chintz, 36" wide, coming in the following eight color combinations—green and cream, ochre and orange, rose and cream, bright blue and cream, henna and green, tête de nègre and orange, green and peach, scarlet and cream. It is an exact reproduction of a 19th century linen, typical of the conventional designs that were in favor at that time both for wallpapers and decorative fabrics. The wavy stripe is in contrasting color and is highly decorative, flower-bedecked and dot-sprinkled. The basket in the center appears in cream on the colored ground, a treatment both effective and unusual. This chintz, though inexpensive, has the appearance of a costly and exclusive material. It is $.90 a yard.

The fourth glazed chintz from the top has a diamond design which does not show in the cut. It is most effective coming in the three colorings of terra cotta, green, or eggplant. This chintz also is only $.50 a yard.

"Historical Buildings" is the name of the next glazed chintz. Faneuil Hall, the Cradle of Liberty in Boston, the Jumel Mansion overlooking the Harlem River in New York, Mount Vernon, and the famous Santa Barbara Mission with its memories of the conquests of the West are all depicted on this interesting fabric. It comes in five colors—a green background with orangy flowers and brown and tan foliage, a putty background with rose flowers and blue foliage, a blue background with green foliage and the same colored flowers as the green background, a cream background repeats the colors found in the blue background, and a tête de nègre which has the same colorings as has the green background. This chintz is 36" wide and costs $.90 a yard.

The glazed chintz in the lower left-hand corner is one of interesting design and color combination.

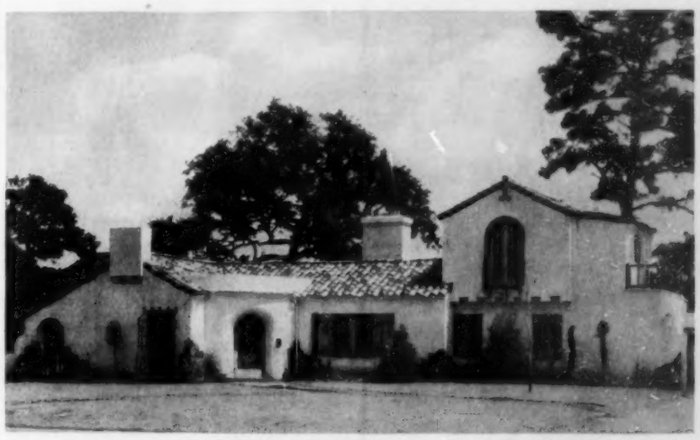
"The Streets of New York" is the name of the glazed chintz a panel of which runs through the center of the page. It was designed by Ruth Reeves and was originally executed on DuPont rayon for the American Industrial Design Exhibition held at the Metropolitan Museum in New York City last October. The design has only recently been introduced. It comes 45" wide on a linen background in the familiar toile de Jouy shades of red or mauve on white, also a third combination of black on a yellow ground. Miss Reeves told THE AMERICAN HOME that this design was "an experiment in modernizing Victorian forms, using as its theme an old American play by Boucicault, depicting the financial depression of 1857, which the New York Repertory Company revived this year. Incorporated in the design are portrait caricatures of Dorothy Gish, Rollo Peters, and other members of the cast." It is sold by James McCutcheon & Co., and the price is $2.25 per yard.

The charming chintz in the lower right-hand corner is called "Stars and Stripes," making it very appropriate for bicentennial decorating. It is 36" wide and comes in six colorings—the two patriotic colorings are first, one with a white ground, red and blue stripes and blue stars; the second a blue ground, red and white stripes and white stars; the others are turquoise blue ground with eggplant and yellow stripes and yellow stars; yellow ground with peach and light blue stripes and light blue stars; periwinkle blue ground with coral and daffodil yellow stripes and yellow stars; eggplant ground with henna and buff stripes and buff stars. This chintz is $1.00 a yard.

All these chintzes with the exception of "The Streets of New York" may be obtained from Jane White Lonsdale, Decorator,

fire finish

GIVES LIBBEY·OWENS·FORD QUALITY GLASS THAT CLEANER, BRIGHTER FINISH



Residence of T. H. Blakeley, River Oaks, Houston. Architect, Chas. W. Oliver

In homes of charm and beauty it is absolutely essential that glass be brilliant and sparkling. That is why the *extra* fire finish is given L·O·F Quality Glass. Flames play directly on its surface and add to its inherent toughness, strength and flatness the *brilliance* which makes each pane sparkle in the sunlight as though it were almost a work of art. And it *is* a masterpiece of the glassmaker's art, for employed in its manufacture are literally scores of exclusively developed machines and processes that combine to produce a window glass of marked and recognized superiority. Ask your architect. He knows the secret of this remarkable beauty and clarity. Or write for our booklet "Quality in Glass for Windows." We will be glad to send it, free of charge, without obligation.

LIBBEY·OWENS·FORD QUALITY GLASS

LIBBEY-OWENS-FORD GLASS CO., TOLEDO, O.
Manufacturers of Highest Quality Flat Drawn Window Glass, Polished Plate Glass and Safety Glass; also distributors of Figured and Wire Glass manufactured by the Blue Ridge Glass Corporation, of Kingsport, Tennessee.

In *and* About *the* Garden

[Edward Barrow]

IN MANY respects the roots of a plant are its most important part. Certainly if the roots are not adequate when a plant is dug and moved, no matter how fine the above-ground portion may be, there is disaster ahead for the planter. Yet broadly speaking, plants are generally bought by their above-ground appearance and the roots taken for whatever they may be. The more skilled plantsman will concern himself considerably more over the development and general condition of the root, than he will over the mere appearance of the rest of the plant. Given a good root, the future of the specimen is largely in his own hands.

It is for this reason that many plants are put into pots in their early stages of growth so that root formation is controlled and encouraged and that subsequent shifts may be made without any serious disturbance of the roots themselves. Some few progressive nurseries handle certain herbaceous plants in pots; and if plants are obtained late in the season after the summer growth is well under way, it is almost essential that plants from pots be used. Every once in a while, too, even well-developed shrubs and vines are offered "in pots" for midsummer planting. The objection to the handling of plants of all sizes in pots is, so to speak, the factory cost which makes the price to the ultimate consumer a fairly considerable sum. It is quite likely, however, that situations sometimes develop when it is economy in the long run to have paid in the beginning the higher price for potted plants.

An adaptation of this principle or perhaps I had better call it a development, pushing the thing a step further than has ever been done before, looks like the introduction of an entirely new method of merchandising of plants. It is particularly as applied to Roses and other dormant shrubs that this new method of "fertil-potting" is something to be thought about. The method itself is interesting.

A modern method of handling dormant plants which affords protection to the roots in storage and an adequate supply of food to start its growing career

Mayer-Kuck Studio

THE plant when dug from the ground has packed about its roots a certain preparation of treated moss (which is compacted around the roots by machinery under very heavy pressure) simulating a block of soil—hence the name "fertil-pot." The root enclosing material is then treated with an exterior plastic covering that retains moisture so that the plant itself is in a combination of pot and soil, having sufficient moisture and food material to carry it for a long period. The revolution of merchandising nursery products lies in the fact that these plants can be handled almost like canned goods. That is to say, they can be laid up on the shelf of the store and when purchased and taken home, if the weather is not suitable, or it is not otherwise convenient to do immediate planting, the fertil-potted plant can be left in its carton until circumstances are convenient. At that time soak the whole thing in water for a few minutes, and then plant the solid root embedded block in a suitably sized hole. The plant is thus given its start and can take care of itself for quite a long time. A soil substitute with plant food is carried in the prepared material and is all that is necessary for a thoroughly good start.

It is quite likely that through the fertil-potted plant new channels of distribution will be devised so that the gardener will find dormant shrubs of all kinds offered to him by dealers of different kinds that have never before thought of handling nursery products. Anything that will make the plant more conveniently available to the gardener, more easy to handle and more easy to set out, will lead to use of more plants in present gardens, to say nothing of starting a garden "virus" where gardens never grew before.

THE old-fashioned flower pot itself is a misunderstood thing anyhow and a bulletin from the Massachusetts Agricultural Experiment Station reporting on some experiments finds that the glazed pot, non-porous, is a perfectly practical plant container provided it is not over-watered. To guard against such a possibility, it is recommended that such non-porous pots be filled with soil flush with the top. If porous pots are used on the porch or about the house, they should be placed on a layer of damp moss. Otherwise the roots in the bottom of the pot will not get their proper supply of water in the dry atmosphere of the living rooms. Even a rubber flower pot was found to be more practical in such a condition than the usual clay pot.

"When non-porous containers are used, the moisture in the soil is evenly distributed throughout the soil mass. Watering need be done but half as frequently as is necessary when a porous pot is used. Water should never be applied when the soil is wet to the touch. As a precaution against over-watering, the soil in a non-porous container should almost completely fill the container, so that there will be less space left for holding water above the surface of the soil." This is revolutionary, indeed, for hitherto the approved attitude has been to condemn the non-porous pot, because it did not aërate the soil mass through its sides. Thus we live and learn!

Rock and Hardy Plants

The Quickest Way To Have Quick Results With HARDY PLANTS and ROCK PLANTS

YOU can't expect to get a quart out of a pint measure. Then why expect to get first year results from hardy plants, that are either the indoor coddled kind, or those that are only a year old?

One is soft. Lacks stamina. The other is too young to have ample roots. Too fickle to be dependable as to blooms.

The quickest, surest way to get good, husky, full-rooted plants, that will thrive the first year, and unqualifiedly give you blooms, is to buy from Wayside. Then you get only plants that are two-year-old clumps. Every one grown outdoors. Every one has a sturdy top and a goodly bundle of roots. And it's roots that count. You know that.

Bear in mind, we positively guarantee satisfaction. Anything not so, promptly made so.

Send for the new catalog. It is better than last year's. Each plant has its own separate growing directions. It is a further insurance of success. Send for it.

It is not necessary to pay more for hardy plants, with roots and top like this Linum Perenne. Wayside's cost no more than others, but are worth far more. Every plant two years old and out-door grown.

America's Finest Plants and Bulbs

Wayside Gardens

Reg. U. S. Pat. Off.

12 MENTOR AVE., MENTOR, OHIO

The Aristocrats of the Rose Garden the Dreer "Gold Medal Dozen"

Here is a collection for the more sophisticated rose lovers . . . those who want the finest of the newer varieties to make their gardens both glorious and modern. Dreer roses have beautified America's country homes for generations and the Gold Medal Dozen is a perfectly balanced assortment. It includes:

Caledonia, Charles P. Kilham, Duchess of Atholl, E. G. Hill, Impress, Lucie Marie, Margaret McGredy, McGredy's Scarlet, Mevrouw G. A. Van Rossem, Mme. Nicolas Aussel, Mrs. John Bell and President Hoover.

One strong two-year-old plant of each of the above roses, $15 for the dozen, or assortment of 100 plants, $115.

***Dreer's Garden Book* sent free on request to those interested in roses, vegetable and flower seeds, perennial plants, etc.**

HENRY A. DREER
Dept. D 1306 Spring Garden Street
PHILADELPHIA, PA.

DREER'S

A New Size! New Colors! New Loveliness!

New MONTBRETIAS!

New hybrids, of the Earlham strain—a notable advance on the ordinary commercial varieties. Taller, more robust, with flowers often 3 to 4 inches in diameter hung like fairy lamps along stout wiry stems. Easily grown—will live over winter with heavy protection.

Goldfinch—Bright yellow with small crimson blotches at center. **30c each**
His Majesty—Deep velvety scarlet, shading down to gold. **50c each**
James Coey—Deep, rich vermilion-scarlet with golden orange lustre; yellow center. 3½ ft. **50c each**
Lemon Queen—Creamy yellow; deep orange buds. **25c each**
Marjorie—Orange-yellow with crimson circle. 3 ft. **25c each**
Princess—Brilliant ruby-scarlet. **50c each**
Queen Alexandra—Chrome-yellow, with carmine blotch at base of petals. 4 ft. **50c each**
Una—Rich apricot, with carmine blotch. 2½ ft. **35c each**

1 each of the above 8 varieties	$ 3.00
3 each of the above 8 varieties	7.75
6 each of the above 8 varieties	15.00
12 each of the above 8 varieties	28.00
Mixture of Earlham Hybrid Montbretias, 1 doz., $2.50	100, $18.00
Mixture of Standard Montbretias, 1 doz., $1.00	100, $7.50

— and don't miss these new arrivals from the court of Beauty —

SUPREME COLLECTION OF 6 SUPERB NOVELTIES

Tithonia Speciosa—The Golden Flower of the Incas—Imagine a full foliaged shrub-like plant standing 8 to 10 feet tall, covered with blossoms like single Dahlias of the most brilliant orange-scarlet with tufted centers of gold. Easily grown from seed. Blooms from late summer to heavy frost. **Pkt. $1.00**

Double Sweet Scented Nasturtium, Golden Gleam—Introducing a double Nasturtium of bright gold coming true from seed. **Pkt. 25c**

Viola Arkwright Ruby—A beautiful ruby-crimson with lovely terra-cotta shadings. Flowers as large as those of a good size Pansy. Perfectly hardy. **Pkt. 75c**

Verbena Lavender Glory—A true lavender with medium size white eye which accentuates the lovely lavender tone. Sweetly fragrant. **Pkt. 50c**

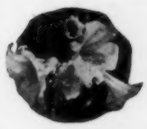
Polyanthus Giant, Bright Eyes—New hardy primrose with gracefully waved petals of rich yellow with bright orange eye. **Pkt. 75c**

Delphinium Iceberg—Pure white with heavy spikes fully 20 inches long. Particularly effective in contrast with the blue varieties. **Pkt. $1.00**

THE COLLECTION—$3.50

9 Hardy Garden Lilies

that deserve a choice spot in your garden



All first size mammoth bulbs

3 **Regale (Regal Lily)**—Long white trumpets touched with rose. Center, canary yellow. 3-4 feet. **$1.00**
3 **Auratum (Gold banded)**—Pure white petals, dotted with maroon, banded with golden yellow. 5-6 feet. **$1.35**
3 **Speciosum Rubrum**—A lovely autumn lily, satin white, heavily dotted with deep pink. **$1.35**
3 bulbs each (9 in all) **$3.50**
6 bulbs each (18 in all) **6.25**

100 Glorious Gladioli

A $7.00 Value for **$3.50**

50 Bulbs for $2

Choicest Mixture — including all the latest and most beautiful varieties such as the lovely Primulinus or Orchid Gladioli, running a gamut of subtle pastel shades from ivory-yellow to an iridescent bronze such as mark the finest nasturtium collections. Start planting April 25th and every 3 weeks thereafter to July 15th and enjoy a long processional of beautiful bloom.

GREEN PEAS (*and lots of them*) FROM JUNE *to* AUGUST—*if you know this secret!*

Late planted peas are almost always a failure because midsummer heat and lack of moisture invite rapid leaf growth without providing an adequate root-system to maintain it. Avoid this difficulty by planting **all these 6 varieties at once** and get big mouth watering crops all summer.

Schling's "Long Season" Pea Collection

Sure to Give You Peas All Season If Planted Early

Schling's Pedigree Extra-Early—Height, 2½ feet. The earliest Pea grown.

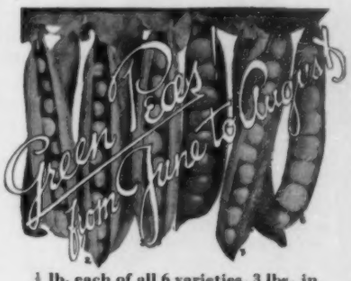
Gradus, or Prosperity—Height 3 feet. Peas of delicious flavor.

Sutton's Excelsior—Height 1½ feet. Very sweet.

Dwarf Champion—Height, 2½ feet. An enormous cropper.

Improved Telephone—Height, 5 feet. Enormous pods, well filled.

Heroine—Height, 4 feet. Last to mature of all garden Peas.



½ lb. each of all 6 varieties, 3 lbs. in all $1.75
1 lb. each of all 6 varieties, 6 lbs. in all $2.75
2 lbs. each of all 6 varieties, 12 lbs. in all $5.00
(Free delivery within 300 miles of New York; beyond add 5 cents per lb. for postage.)

The Book for Garden Lovers—a guide to better gardens—35c the copy

Madison Ave. at 58th Street **Schling's Seeds** New York City

Max Schling Seedsmen, Inc.

Famous Hackberry Tree at Washington's birthplace, Wakefield, Va., responds to Bartlett's scientific feeding methods.

Science

will also safeguard your priceless trees

Today, new vigor is stirring in the historical old Hackberry Tree at George Washington's birthplace — healthy growth and natural beauty are staging a glorious comeback.

Not so long ago, when this noble specimen seemed to be withering, when branches were dying and foliage sparse, a Bartlett Associate diagnosed the trouble and prescribed scientific feeding with Bartlett's Green Tree Food.

The same technical knowledge, the same practical skill are available to you—and cost less than most people believe. It is quite likely your trees are also suffering from lack of food, for the severe drought of the past three growing seasons is a widespread menace.

Why not have a Bartlett Associate inspect your trees—willingly—cheerfully, without any obligation whatever? Communicate with the nearest office, or send the convenient coupon below.

Hungry trees fed the Bartlett Scientific Way respond readily with vigorous growth and beautiful foliage.

THE F. A. BARTLETT TREE EXPERT CO.

Home Office: Stamford, Connecticut

Branch Offices: Bala-Cynwyd, Pa.; White Plains; Boston; Westbury, L.I.; Orange, N. J.; Syracuse, N. Y.; Richmond, Va., Box 8, West End Station; Danbury, Conn.; Pittsfield, Mass.; Wilmington, Del.; New Haven, Conn.; Manchester, Mass.; E. Providence, R. I.; Washington, D. C., Box 3103; Bay Shore, L. I., Box 118

BARTLETT

EXCLUSIVE BARTLETT FEATURES—TOOK'S NUWOOD. BARTLETT MEAL COLLAR

Operating also the Bartlett School of Tree Surgery and the Bartlett Tree Research Laboratories

THE F. A. BARTLETT TREE EXPERT CO., Stamford, Conn. (A-3-32)

Without charge or obligation, I would like to talk with a Bartlett Associate about my trees.

Name.....

Address.....

Garden reminders

North

The Flower Garden—Now plant Roses; best by themselves, in sunny, open spaces sheltered from severe winds and away from large trees. Most varieties do best in a heavy clay loam. Set Hybrid Perpetuals three feet apart, Hybrid Teas 18 inches apart and Teas 15 inches apart. Two-year-old bushes are best. . . . Plant Mignonette, Dianthus, Poppy, Cosmos, Gypsophila, Lavatera, Nasturtium, and Centaurea seeds where plants are to grow. . . . Sow all hardy annuals. . . . Uncover bulbs and dig beds, turning soil over. . . . Plant Sweet-peas in trenches. . . . Plant Marigolds late in the month. . . . Start sowings of Sweet Alyssum late in the month and continue until July. . . . Divide Phlox, Delphinium, Helenium, and other hardy perennials. . . . Set out Pansies wintered in the coldframe.

The Vegetable Garden—Sow English Beans, Lettuce, Onions, Parsley, Peas, Parsnip, Potatoes, Cauliflower, Carrots, Early Cabbage, Brussels Sprouts, Beets, Cress, Spinach, Celery, Kohlrabi, Radishes, and Early Turnips. . . . Plant Potatoes first, treating with weak solution of formalin to prevent scab. . . . Transplant Cabbage and Cauliflower to garden if the season is normal. . . . Transplant Asparagus, Chives, Horseradish, and Rhubarb. . . . Make a second sowing of Peas late in the month and continue every two weeks until late June. . . . Harden vegetables started indoors or under glass.

Hotbed or Coldframe—Start some seeds in frame left vacant by plants taken out for transplanting. . . . Transplant seedlings from the hotbed to the coldframe. . . . Remove Beets, Cabbage, Cauliflower, and Lettuce from frame and put them into the ground. . . . Plant in the frame seeds of tender annuals that can be shifted later. Try Asters, Heliotrope and Petunias. . . . Put tender vegetables into the frame, to be set out next month. Especially, you want some Eggplant, Cucumbers, Melons, Peppers, and Tomatoes.

Miscellaneous—Rub sprouts from trees as soon as they show. . . . Spray Roses with Bordeaux mixture. . . . Plant new shrubbery and trees now if the ground is dry. . . . Prune Grape vines and the orchard fruits. . . . Fertilize all the growing things. . . . Forced Easter plants may be set out. . . . Divide and replant perennials that have been in one place three years. . . . Keep spray chart handy. Watch especially for pests that bother fruit trees. . . . Transplant evergreens. . . . Sow some grass seed for new lawns. Renovate old lawns. Roll lawns and apply a plant food.

South

Miscellaneous—The spring garden is at its height of beauty this month and next; but now is the time to plan and plant for the summer and fall garden. Spray with Bordeaux mixture, or dust with powdered sulphur, to check mildew on Roses, Crepe-myrtle, and fruit trees. . . . Beware of using any spray or insecticide too strong at this season; young leaves are very tender. . . . Get rid of aphids with nicotine sulphate or with ordinary soap-suds. Keep down the Argentine ants, which foster aphids, by putting out now fresh cans of ant poison (U. S. Entomological Bureau formula or antrol preparation) . . . Watch for borers in Fig and Peach trees; cut them out with a sharp knife, and paint the aperture with asphaltum, 5 inches above and below ground. . . . Mow the lawn twice a month: remove weeds with trowel, fill hole with water, and plant a bit of sod to fill the bare spot.

The Flower Garden—Cut blossoming shrubs as well as perennials and annuals freely to prolong the blooming season. The best way to prune Spirea, Philadelphus, Deutzia, Weigela, Abelia, Japan Quince, and climbing Roses is to cut long sprays to give to friends, the church, the sick, and the stranger within your gates! . . . Plumbago, Perennial Phlox, and the other perennials: Hollyhock, Columbines, and the other biennials; Daisies, Pinks, Gypsophila, and the other annuals, will all bloom longer if cut lavishly. The more you give away, the more you'll have. Don't let seeds form! . . . Iris are blooming this month: native Iris from the swamps and roadside ditches may be transplanted when in bloom, but flowering stems and the tops of leaves should be cut off, and the rootstock with three inches of leaves planted near the top of the ground and kept moist. . . . Set out Verbenas, Snapdragon, Centaurea, Pinks, Mignonette, Heliotrope, Columbine, and other early annuals, if you have not done so. It is rather late to plant seeds of most of these, in the Far South. . . . Seeds of all the tender annuals may be sown now—Impatiens, Amaranth, Gomphrena, Celosia, Gaillardia, Browallia, Petunia, Portulaca, Torenia, Vinca rosea and alba, Zinnia. These will replace the Pansies, English Daisies, Lobelias, and other very early annuals, now growing shabby. . . . Where the early bulbs, such as Narcissus and Hyacinth, are dying back, plant borders of summer annuals, or such perennials as Ajuga repens, Sedum acre, or Moss Verbena. . . . Plant vines to cover fences and garages: Coral Vine (Antigonon leptopus); Ipomea leari, the Heavenly Blue Morning-glory; the various Jasmines, white and yellow; Clematis paniculata, Solanum jasminoides, and the many annual climbers—Morning-glories, Moon-vine, Cardinal Climber, Cypress Vine, Maurandya, Thunbergia, Balloon-vine, Gourds, Hyacinth-bean, Sword-bean. . . . Plant for background Hibiscus, Althea, and Tree-cotton; Cassia, Sesbania, Albizzia, Erythrina; Buddleia, Salvia (purple and blue as well as red.) On terraces and porch-boxes, Trailing Lantana; while the bushy sorts of Lantana make informal hedges. . . . Set out Geraniums, Begonias, Jatropha, Ferns and other house plants. Make cuttings of Chrysanthemums. Plant Dahlia tubers. . . . Plant Cannas, Hemerocallis, Gladiolus, Tuberose,

Garden reminders

and Montbretia. . . . For fall bloom, Cosmos, Sunflowers, African Daisy, Stokesia, Impatiens sultana, African and French Marigolds may be started now.

The Vegetable Garden—Sow Beans, Bush, Pole, and Lima; Sweet Corn; Okra; Cucumbers, Cashaw, Squash, Pumpkins, Watermelons, Cantaloupes; Beets, Carrots, Radishes; Swiss Chard, Mustard, Lettuce, Endive, Cress, Parsley, Celery for cutting, Roquette, Chervil. . . . Set out Onion sets, Chives, and Shallots. . . . Sow Tomatoes, Eggplants, and Peppers. . . . Cabbage and Kohlrabi may be sown now; and toward the end of the month, Cauliflower. . . . Plant Sweet Potato slips. . . . Plant Jerusalem or Ground Artichokes.

The West Coast

Plant Cannas now, in rich soil, also Gladiolus and Tigridias, and start Tuberous Begonias in sand. . . . Make Chrysanthemum cuttings from new growth on old plants. Divide Primroses and clump perennials and Violets, and make Viola cuttings. Set out Heliotrope, Geranium and Fuchsias (shade). . . . Along the coast and in Southern California, continue sowing annuals; in the Northwest delay tender annuals. . . . Transplant Dahlia seedlings to pots, and set out all young seedlings in open beds, shifting Pansies twice for root growth. . . . Give new Roses a plant food dressing; older ones liquid fertilizer; disbud and spray for aphis with soap or nicotine; sulphur for mildew. . . . Renew fern beds with fresh leaf mold and new plants. Keep the lawn raked, weeded, mowed, fertilized and watered in the absence of rain. Keep Sweet-pea pods from forming seed. . . . Replace Stocks and bulbs with Chrysanthemums, Asters, Zinnias, Petunias, Cosmos, etc. Replace old plants in window boxes with summer bloomers. . . . Try the novelty Marian Collier Shasta Daisy. Also Salvia sclaria (Clary). . . . Look after newly planted shrubs, staking, irrigating and mulching. . . . Begin planting Dahlia tubers for summer blooming along the coast; for interior regions and warmer regions, plant for autumn blooming.

Dwarf fruit trees for the small lot

Continued from page 11

there is, in general, little or no effect on the other characteristics of the tree. The fruit is as large, as well colored, and as well formed. Some state that dwarf trees (particularly of the Pear) improve the color, size, and quality.

The dwarf Apple on Paradise roots and the Pear may be planted ten feet apart. If there is no need to crowd the trees it would be desirable to plant a little farther apart. Nursery catalogs occasionally do not state whether their dwarf trees are full or half dwarfs. If they recommend a planting distance of ten feet for the dwarf Apple trees one can assume they are on Paradise roots. If the planting distance recommended is fifteen or more feet it is likely the trees are on Doucin roots. When dwarf Apple trees are planted ten feet apart it is obvious that a number of trees can be planted in the space usually allotted to Apple trees which are ordinarily planted thirty-five to forty feet apart. The full dwarf trees should be selected for the suburban garden. Even standard Pears are planted twenty feet apart, a fact which gives considerable advantage to the dwarf trees. After a number of years dwarf trees of these fruits attain a height of from eight to ten feet. They will not reach twelve feet until after twelve or fifteen years, and may never do so. If they have any tendency to go beyond the height desired they may be prevented without any effect other than that of reducing the total quantity of fruit produced by the tree. Dwarf Peach, Apricot, Nectarine, Plum, and Sour Cherry should be planted ten to twelve feet apart; while the Sweet Cherry requires a distance of twelve to fourteen feet.

The price of dwarf trees is reasonable, in some cases being no higher than standard trees of the same kind of fruit. It is obviously inadvisable for anyone who is growing only a few trees in his garden to have other than the best varieties. The highest quality of Dessert Apple varieties available as dwarfs are McIntosh, Northern Spy (Red Spy), Delicious, Winter Banana, and Jonathan. It is questionable whether Grimes Golden should be planted as a dwarf unless it has been what the nurseryman calls double worked—a double grafting process. The Pear varieties which make the best dwarfs are Bartlett, Duchess, Clapp Favorite, and Seckel. As previously pointed out in THE AMERICAN HOME (September, 1929) cross pollination must be adequately provided for.

Set out two-year-old trees in the spring just as growth is starting. They should have well-formed heads and a number of well-spaced scaffold branches. Plant three inches lower than the slight bulge on the lower part of the tree trunk which is the point at which the grafting or budding took place. Deeper planting will likely cause the trunk above the bulge to send out roots. If this happens the restraining effect of the dwarfing roots is overcome. The trees should be planted in soil whose fertility is favorable to the standard sized trees. The dwarf tree may, because of a shallower root system, suffer more than the standard tree from such detrimental conditions as wet feet (too moist a soil), or drought.

It was once thought that all trees must be cultivated when young. Undoubtedly this is the standard procedure and will produce the best growth, particularly in case of young trees of the stone fruits. Results are satisfactory, however, when the trees are permitted to grow in sod after the first year. Such trees must be fertilized annually when the spring growth begins. This fertilization is essential in case of trees planted in sod and desirable with cultivated trees as well. The trees may be occasionally mulched with sufficient material to keep the grass killed beneath the spread of the branches. It is likely that in times of drought

Rare and Unusual Varieties of
WATER LILIES
Exquisitely colorful and fragrant
NEW beauty, gorgeous new colors, exotic fragrance and fascinating new interest are given to your garden by the addition of a Water Lily Pool. And, fortunately, every garden, large or small, provides ample room for a Water Lily Pool, or at least a simple sunken tub-garden.
Marvelously beautiful effects can be achieved quickly and with little effort or expense. You can enjoy a Water Lily Pool this summer if you plan now.
Rainbow Collection Water Lilies–$10.50
5 fine varieties. Morning Glory, shell-pink. Gloriosa, large red. Paul Hariot, orange-pink. Blue Beauty, deep blue. Chromatella, rich yellow. Each one a gem.
All 5 Water Lilies for only $10.50
Complete Water Garden for $5
Consists of choice of pink, blue, yellow or white Water Lily; 6 Aquatic Plants; 6 Border Plants, Cedar Water Lily Tub and pair of snails. A splendid collection for the beginner.
All for $5
New 1932 Catalog FREE
A beautiful new 48-page catalog, filled with helpful information. Describes and illustrates in full color, our immense collections of Water Lilies, Aquatic Plants and Ornamental Fishes. Write now for your FREE copy.
Complete Collection for Average-Size Pool
4 Water Lilies, each of different color. 20 aquatic plants, most interesting varieties. Pair of Young Giants and 6 common goldfishes. 3 Calico fishes. 6 each of Tadpoles, Jap Snails, Black Ramshorn or Melanthos. 2 Clams and pair of Salamanders. 1 Carton of Praefecta, our fertilizer.
All for $15.50
Goldfish Collection for Large Pool—$15
32 beautiful fishes. 1 pr. Giants, 10 to 12 in. long. 2 pr. Young Giants, 1 doz. common goldfishes, 4 to 6 in. long. 1 doz. Shubunkins and 1 pr. American Fantails.
$21.50 value for $15
Wm. Tricker Inc.
2401 Brookside Avenue
Water Lilies
Saddle River, New Jersey

Azaleas and Rhododendrons

All of nature's glorious colors are bound up in the flowers of these wonderful evergreen shrubs. Blood-red, pink, carmine, rose, crimson, lilac, scarlet, salmon, purple, white, in solid colors, variations, and markings, provide endless combinations.

Azaleas and Rhododendrons are not difficult to grow when suitable varieties are chosen. And no shrubs return greater rewards in color and beauty. Nor are they expensive, for with reasonable care they thrive and bloom for years.

Superior collections are presented in our booklet

Evergreens, Rhododendrons, and Azaleas

which also includes flowering trees, shrubs, and vines. A copy will be mailed on request, *free* east of Rocky Mountains (west of Rockies please send 50 cents for booklet).

BOBBINK & ATKINS

Rutherford New Jersey

Choicest Nursery & Greenhouse Products Grown in America

It Does MORE than Cut the Grass

Jacobsen

POWER MOWERS

Imagine you are looking at a fine lawn mower that is doing the finest job of lawn cutting you ever saw—actually accomplishing *two* things at once, cutting the grass and rolling and smoothing the lawn, giving it a true velvety finish. Picture that in your mind, and you will be seeing the celebrated Jacobsen Roller Mower at work.

A Powerful, Gear-Driven Super-Built Machine

—possessing the greatest lawn mower feature ever patented—the enclosed, oil-floating gears that do away with chains and exposed sprockets worn out so quickly in ordinary mowers. Improved, high compression motor; auto-type differential, finger-tip control; six-blade true-running cutting reel with special gears for sharpening under own power. Lawn enthusiasts everywhere use *Estate* mowers because they do "more than cut the grass." Wheel and Roller Type Power Mowers—from 20" to 66" cutting widths. Priced at *$150 and up.* Write today. Sales and service everywhere.

JACOBSEN MFG. COMPANY
742 Washington Ave., Racine, Wis.

3-32

Estate mower at work with grass catcher.

JACOBSEN

BUILT TO SAVE RUNNING EXPENSE

Dwarf fruit trees for the small lot

mulched trees will suffer less than trees planted in sod. The point that cultivation is not essential is, however, to be emphasized. It will not be necessary to sacrifice a harmonious landscape with its stretch of green leaves to the persistent cultivation of fruit trees.

The pruning of dwarf trees may be thought to be an important factor limiting their value. The gardeners in England who produce the very decorative forms such as espaliers and cordons must do considerable summer pruning, pinching back the new growth occurring on small branches at a definite time in the summer. It has been falsely stated that this "summer pinching" is necessary for the successful management of dwarf trees in America. While it is possible that slightly greater quantities of fruit may be induced by this method it is by no means essential. The necessary pruning takes place during the dormant season and consists in the thinning out of such branches as are crowding or displacing the permanent ones. In addition head back the terminal growth of the previous year from one quarter to one half of its length.

Modern sunrooms

Continued from page 13

be sunfast, and if you choose those guaranteed as such by a reputable manufacturer, you need have no fears on that score. If only one set of curtains is used, they should be dense enough to ensure privacy at night when the lights are lit inside. A good example is a washable, sunfast fabric known as Sardinian Cloth, which has a rather coarsely woven oyster ground divided into small squares by narrow lines of cut pile in bright colors. Another possibility is the new Luxor Cloth with its narrow, shaded stripes of lemon yellow, sand, gold, and brown, or a striking pattern called Tete which has wide stripes of navy blue on a yellow warp alternating with narrower ones in well-calculated proportions of orange, yellow, sand, and a warm green.

Provincial fabrics are popular on much of our modern sunporch furniture (H. C. White Co.)

The new rattan and malacca furniture echoes the feeling that sunlight calls for vivid colors, for the coverings are most frequently coarsely woven linens and cottons in the bright Moroccan and provincial colors inspired by the French Colonial Exposition. Yellows, reds, and warm browns are used in vigorously contrasting stripes, and checks and conventionalized designs are particularly stressed. The wood is finished in a new way that makes it seem hand rubbed and old, and construction is designed for comfort and use. If you like metal furniture—and it is more attractive than ever in its bright coverings—you can find it in chromium, cadmium, or copper plate, and its lightness and grace make it the best possible choice for creating a more spacious effect in the very small sunroom or terrace.

The sudden showers that are certain to beat in through open windows in summer, and the inevitable splashes from watering plants in window boxes and wrought iron stands call for a labor saving waterproof floor of linoleum, tile, or rubber composition.

Since the famous Dr. Rollier has been curing hopeless cases on his Swiss mountain by the use of sunlight alone, we know that whenever possible, our rooms must be flooded by its direct, unfiltered rays. The windows cannot stand open all year, however, and unless we are to lose the precious ultra violet rays in cold weather, we must equip the sunroom with the new glass that transmits them. The extra cost of this glass has been amply justified by experiments at Columbia University, showing that after exposure for two years to the elements it still admits enough winter sunlight to cure rickets. It was at first feared that prolonged exposure would destroy this transmitting quality, but it is now known that after the first month the loss is so small as to be negligible.

A brilliant Danish doctor has recently shown that the appalling rise in the curve of pneumonia, bronchitis, diphtheria, scarlet fever, and all kinds of disease on medical charts during the winter months corresponds

Extremely comfortable in design is this reed chair (Heywood-Wakefield Co.)

Modern sunrooms

exactly with our loss in hours of sunlight at that time, while year after year the peak of the death rate comes in February and March. This was serious news, so science set to work to invent a lamp which would restore this lost sunlight with its life-giving properties. The result is that there are now several types on the market which, installed in the sunroom, will give us an ultra violet bath on even the darkest days, and a healthy coat of tan as well, if that suits our particular style of beauty.

One carbon arc lamp which can be plugged into any electrical outlet has the great advantage that the time of exposure may be set at anything from one to thirty minutes, a clock acting as an automatic extinguisher, so that one can go to sleep under the lamp, or leave the children playing in its rays without any fear of "sunburn" from over exposure. Another well recommended sunlamp has as its source of energy a bulb that looks very like an ordinary mazda lamp; this model is obtainable as a floor lamp, a wall bracket, a table lamp, or a ceiling fixture, and supplies artificial sunlight that may be used quite as freely as the real thing.

Table magic in cooking

Continued from page 24

Vinaigrette. Some people like 'em and some people don't. But oh, how those who do, do! And here endeth the new notes for the grill and the griddle.

But we dare not forget the waffle iron even if you have. And if you have, why have you? You couldn't get the batter right? Was it sometimes too thick and sometimes too thin? That wasn't your fault nor the fault of the iron. Some flour just naturally needs more milk and some flour less. And only an expert can tell which is which. That's why even with a tried and true recipe you might sometimes have had to try waffle after waffle. Then when one turned out just right you'd discover you were down to the last spoonful of batter. But there's hope for your waffle-less home. Prepared waffle flour is on the market! Failure-proof,fool-proof, trouble-proof. Put that flour in your pantry and you can put waffles into your family's eager, waiting tummies, quicker than quick.

Baking waffles isn't all a waffle iron can do. When it's called upon only to bake waffles it must suffer the way a composer would who'd been hired to dust pianos. That iron will make the nicest, decorative toast you ever saw. It will bake omelets, cookies, cakes, biscuits, corn bread, and fritters—to say nothing of doing right well by doughnuts and toasted sandwiches.

Would you like a waffle-ized biscuit? Here it is: Sift together 2 cupfuls flour, 4 teaspoonfuls baking powder, 1 teaspoonful salt. Blend with 6 tablespoonfuls shortening till the consistency of small peas. To 2 beaten eggs add 1¼ cupfuls milk. Add this to flour mixture and combine thoroughly. Drop a tablespoonful of batter on each section of pre-heated waffle iron. Close grids and bake four minutes. Serve with any of the grilled dishes we've talked about or with honey and marmalade for tea.

Say fritters to any man and watch him grin. Say fritters to a woman and watch her grimace. He's thinking how good they are and she's thinking of the smoke that clouds her kitchen. They can be made right at the table with never a whiff of smoke on that well-known waffle iron. Want to try it? Sift 1½ cupfuls flour with 2 tablespoonfuls baking powder and 1 teaspoonful salt. Beat 2 eggs, add ½ cupful of milk and combine with the flour mixture. Add 6 tablespoonfuls melted shortening and 1 cupful canned corn (drained of the liquor). Stir and bake as you would waffles, for five minutes. Serve any way you please and eat with gusto.

There's hardly a man who can't top off a square meal with a piece of chocolate cake. So if your husband's guests, after three servings of bacon and eggs, innumerable slices of toast and simply gallons of coffee, still have a hungry, appealing look in their eyes —it's cake they want. You can make that at the table, too, while they're clearing up the dishes. Sneak away by yourself and cream ½ cupful butter with ½ cupful sugar. Add 2 beaten eggs and 1½ ounces of bitter chocolate, melted. Sift 1½ cupfuls flour with 3 teaspoonfuls baking powder and add to first mixture alternately with 1½ cupfuls milk. Add 1 teaspoonful vanilla and beat.

Then saunter back to the table, pay no attention to that broken plate in the fireplace, flip on the waffle iron, pour that thick, creamy batter onto the grid, close and in four minutes out pops chocolate cake to be dusted with powdered sugar and eaten hot. There'll be enough to go around twice.

So when they say "goodnight" with admiration written on their faces you'll know that it's the hand that flips on the electric switch that really rules the world!

We're not signing off. Please don't go just yet. There's a moral just waiting to be served. 'Tis this. After you've discovered how practically painless it is to make your husband's friends happy—apply that little lesson to all of your entertaining. When you've played late and long at bridge, place a sandwich grill at your elbow and set some coffee to perking. A hot, toasted sandwich, helped on its way to eternity by a cup of golden coffee may call forth the kindest words you've heard that night.

When your club meets the next time invite these electrical servants in with the guests. Many of the de luxe models are equipped with automatic heat controls so no one can sniff and say, "My dear, I smell something burning." One far-seeing company has designed a group of appliances that look alike! A waffle iron, sandwich grill, and percolator set of lustrous, non-tarnishable metal are matched in a simple Grecian pattern. But even the unmatched devices are so carefully and precisely made that they'll last trouble-free for years.

Totty's

GARDEN ROSES

OLYMPIAD

This is the sensational Rose of the decade, and the outstanding novelty for 1932. The scarlet flowers are beautifully formed with bright golden flashes at the base of the petals. This rich color is further intensified by a marvelous velvety sheen that renders the flower exceedingly effective especially in artificial light, with a scarlet glow of flame-like brilliancy. The buds are long and pointed, petals very broad, and the blossom is magnificent in every stage of development.

Price: $2.00 each, $20.00 per dozen.

ROSES

grown by Totty's are known everywhere for their excellence. In our extensive assortment of healthy field grown stock, there are the outstanding novelties as well as the established favorites. All of our roses are grown under the closest supervision and show the results of a quarter century of expert propagation. For 1932, Totty's again offers the most complete selection of novelty and standard roses obtainable. They are fully described in our new catalog, which will be sent upon request. Price: $10.00 per doz., $80.00 per hundred.

TOTTY'S, MADISON, NEW JERSEY

TOTTY'S, Desk A-4, Madison, New Jersey

I enclose $ for which send me_____OLYMPIAD ROSES when ready for shipping. Send me 1932 catalog ☐

NAME_____

ADDRESS_____ STATE_____

DAHLIAS *for every Home and Garden*

Good dahlias are a necessity today to the well-balanced and well-planted garden. Good dahlias are not at all expensive, though the newest introductions at times, due to their scarcity, may seem costly to you. To illustrate the inexpensiveness of fine dahlias and to guarantee their inclusion in your garden and home this year we present for your consideration three collections, combining a wide diversity of types and colors. There is not an undesirable dahlia in this entire list. They will all return many times their cost in bloom and satisfaction and they are all POTASH FED.

Dahliadel Ten, $3.50
Value $6.75
Jersey Sweetheart
Jersey Sovereign
Mgt. W. Wilson
Robert Scott
Avalon
Casper G. Ware
C. B. Githens
Jane Hall
Harry Mayer
Roman Eagle

6 Pom Pon Dahlias
$1.50
Value $2.25
Aimee
Bob White
Dee Dee
Little Edith
Yellow Gem
Atom

12 Great Dahlias
$2.00
Value $10.60
Emma Marie
Seal's Californian
Sanhican Peach
Grace Ricords
Mrs. I. D. V. Warner
Jean Hare
Eldorado
Mrs. F. A. C. Perrine
Amun Ra
Jersey's Fiancee
Margaret Masson
Kemp's Lavender

1932 Catalogue
is FREE and contains full directions for pruning and growing dahlias for both home and showroom. Write for your copy today.

DAHLIADEL NURSERIES
W. W. Maytrott **Box A** **Vineland, N. J.**

ALADDIN-ALADDIN

A NEW
Ever-Blooming
Hardy
Chrysanthemum

ALADDIN

BLOOMS of burnished copper and gold, ever increasing from late July to November, distinguish Aladdin from all other Hardy Chrysanthemums. Three or more glorious blooms, carried on long stems, make it brilliant in garden borders and masses. For indoor decoration the flowers are superb, lasting 10 days to two weeks after cutting. Aladdin has been awarded several gold medals, certificates, and cups as the best Hardy Chrysanthemum of recent years.

Strong plants, 3-in. pots
$1.00 each, $9 for 10, $80 for 100
6 plants at 10 rate, 25 at 100 rate

Send your order today to our Mr. D. M. Smith, and receive our 1932 Catalogue with superb color picture of Aladdin, with list of flower and vegetable seeds, plants and garden supplies.

BRECK'S 85 State Street BOSTON, MASS.

ALADDIN · · · · ALADDIN

HELPFUL BOOKLETS

ARE YOU faced with some problem in constructing, remodeling, furnishing, or equipping your home? There are many helpful ideas and suggestions contained in the literature of reputable manufacturers.

Read the advertisements in this issue carefully and request literature direct from the advertiser wherever possible. Then, if you do not find what you are looking for, scan this list.

THE AMERICAN HOME acts as a clearing house between reader and manufacturer. You can order the booklets you wish on the coupon at the bottom of page 59. We will forward your name and address to the manufacturers involved, and they will send their literature direct to you.

—HEARTHSTONE EDITOR

ORDER BY NUMBER ONLY, USING COUPON ON PAGE 59

Building Material & Equipment

Bathroom Fixtures & Plumbing Supplies

THE VITAL ELEMENT (WROUGHT IRON PIPE)
A. M. Byers Co. 196
RUST PROOFED
American Brass Co. 217
BATHROOM ARRANGEMENT
Crane Co. 32
MAKING BATHROOMS MORE ATTRACTIVE
C. F. Church Mfg. Co. 31
ONE PIECE WATER CLOSETS
W. A. Case & Sons 568
HOT WATER SUPPLY
American Radiator Co. 440

Fireplaces and Accessories

FIREPLACE UNITS
Heatilator Co. 419

Garbage Incinerators, Sewage Disposal & Water Systems

DEPENDABLE SEWAGE DISPOSAL
San-Equip, Inc. 526
D. L. RESIDENCE WATER SYSTEMS
Delco Appliance Corp. 683

Hardware

GOOD BUILDINGS DESERVE GOOD HARDWARE
P. & F. Corbin Co. 186
HARDWARE FOR UTILITY AND ORNAMENTATION
Sargent & Co. 464
FLOOR PROTECTION—NO MAR FURNITURE RESTS
Bassick Manufacturing Co. 667

Heating Plants & Accessories

COMFORT HEAT
Burnham Boiler Corp. 281
A MODERN HOUSEWARMING
U. S. Radiator Corp. 172
CAPITOL CAST IRON CONCEALED RADIATORS
U. S. Radiator Corp. 707
CADWELL RADIATOR AIR VALVES
The Beaton & Cadwell Mfg. Co. 513
COMFORT, CONVENIENCE & CLEANLINESS OF IDEAL GAS BOILERS
American Radiator Co. 618
THE DOHERTY-BREHM HUMIDIFIER
Doherty-Brehm Co. 659
HOME VENTILATION
Cincinnati Victor Co. 704
HEATMASTER (SURFACE COMBUSTION WARM AIR FURNACE CATALOGUE)
Surface Combustion Corp. 725
CONTROLLED HEAT
Hoffman Valve Co. 727
HOW TO LOCK OUT AIR, THE HEAT THIEF
Hoffman Valve Co. 728
HUMID-HEET AIR CONDITIONING RADIATORS
Utica Radiator Corp. 733

House Building Materials

BEAUTIFUL HOMES OF CONCRETE MASONRY
Portland Cement Ass'n. 496
BEAUTY IN BRICK
The Finzer Bros., Clay Co. 681
LOG CABINS UP TO DATE
Shevlin, Carpenter & Clark 612
NEW BEAUTY FOR THE NEW HOME—GIVING THE OLD HOUSE A NEW LEASE ON LIFE (SHINGLES)
Creo-Dipt Co. 739
HOW TO PANEL A ROOM WITH KNOTTY PINE WORKING DRAWINGS & ESTIMATES
Shevlin Pine Sales Co. 732

House Wiring Installation

HOME OF A HUNDRED COMFORTS
General Electric Co. 500

Insulating Materials

THE BUILDING BOOK
Celotex Co. 415
THE QUILT BOOK
Samuel Cabot, Inc. 397
HOME COMFORT THAT PAYS FOR ITSELF
Wood Conversion Co. 434
INCREASING HOME ENJOYMENT
Insulite Co. 284
HOME INSULATION
Johns-Manville Co. 616
IT SAVES—IT BUILDS—IT INSULATES
Johns-Manville Co. (Wallboard) 679
NEW HOME COMFORT AT LOWER COST
Armstrong Cork & Insulating Co. 724

Paints & Varnish

SHINGLE STAIN
Samuel Cabot, Inc. 160
ALUMINUM PAINT—A METAL PIGMENT PRIMING COAT
Aluminum Co. of America 538
CREO-DIPT BRUSHCOAT STAINS AND COLOR CHART
Creo-Dipt Co. 645

Portable and Ready Cut Houses

PLANS OF CUT HOMES
The Gordon Van Tine Co. 341
HOUSES—SECTIONAL
E. F. Hodgson Co. 25

Roofing and Shingles

COLOR IN ASBESTOS SHINGLES
Johns-Manville, Inc. 14
THE CONSTRUCTION OF THATCH ROOFS
Weatherbest Stained Shingle Co. 88
WEATHER EFFECT SHINGLES
Ambler Asbestos Shingle & Sheathing Co. 529
NEW ROOFS OVER OLD
Barber Asphalt Co. 481
MAKING OLD HOUSES INTO CHARMING HOMES
Weatherbest Stained Shingle Co. 662
BEAUTIFY YOUR HOME—INEXPENSIVELY
Johns-Manville, Inc. 677
SUPERIOR ROOFS, LEADERS, GUTTERS & DOWNSPOUTS
Wheeling Metal Mfg. Co. 407

Windows, Doors & Screens

CONVENIENCE IN SCREENS
Rolscreen Co. 332
YOUR WINDOWS THROUGH A DECORATOR'S EYE
David Lupton's Sons Co. 521
SCREENING YOUR HOME
The Higgins Mfg. Co. 27
QUALITY IN GLASS FOR WINDOWS
Libbey-Owens-Ford Glass Co. 670
DECORATE YOUR HOME WITH CASEMENTS
Detroit Steel Products Co. 453

Walls & Floors

AMBLER ASBESTOS "WALTILE"
Ambler Asbestos Shingle & Sheathing Co. 320
CROMAR OAK FLOORS
The Cromar Co. 682
BEAUTIFUL FLOORS AND SAVING OF HUNDREDS OF DOLLARS
Ponsell Floor Machine Co. 425
COLORFUL WALLS FOR BATHROOMS AND KITCHENS (TILE BOARD)
Johns-Manville, Inc. 678
UPSON FIBRE TILE, UPSON BOARD
Upson Board Co. 164
UPSON RELIEF CEILINGS
Upson Board Co. 605
CHARACTERFUL WALLS & CEILINGS
Upson Board Co. 604
WILL YOUR HOUSE BE AS BEAUTIFUL INSIDE AS OUTSIDE? (TILE)
The C. Pardee Wks., Inc. 522

Awnings, Porch Shades & Blinds

COLLMOR PORCH SHADES
Raymond Porch Shade Co. 710
TODAY'S STYLES IN AWNINGS
Otis Company 53

HELPFUL BOOKLETS

ORDER BY NUMBER ONLY, USING COUPON BELOW

House Furnishings

Drapery & Upholstery Fabrics & Equipment

HOW TO DRAPE YOUR WINDOWS
Kirsch Co. 55
COLOR HARMONY IN THE HOME (DECORATIVE FABRICS)
Celanese Corporation of America 701
COLOR, THE SECRET OF BEAUTIFUL HOMES
Orinoko Mills 75
BRIGHT NEW WAYS TO DRAPE YOUR WINDOWS
Marshall Field & Co. 719

Floor Coverings and care of

BEAUTIFUL FLOORS (WAX)
A. S. Boyle Co. 50
THE SECRET OF BEAUTIFUL FLOORS
Floorola Corporation 657
REDUCING THE CARE OF FLOORS & FURNITURE
S. C. Johnson & Son (wax & machine) 54
FOR THAT NEW HOME OF YOURS
Armstrong Cork Co. 83
COLOR AND CHARM IN HOME INTERIORS
Congoleum-Nairn Inc. 706
FACTS YOU SHOULD KNOW ABOUT THE CARE OF RUGS & CARPETS
Clinton Carpet Co. 156
INSIDE FACTS ABOUT OUR WHITTALL RUGS AND CARPETS
M. J. Whittall Associates 178
GIVE YOUR FLOORS A FRESH START IN LIFE. (DOUBLE X FLOOR CLEANER)—(SAVABRUSH RESTORES OLD PAINT BRUSHES)
Schalk Chemical Co. 730
WOOLEN RUGS
Mohawk Carpet Mills 734

Furniture

THE FRIENDLY CHARM OF COLONIAL FURNITURE
Conant-Ball Company 608
NEW ARTISTRY IN RADIATOR CONCEALMENTS
Tuttle & Bailey 227

House Furnishings, Miscellaneous

THE GLASS OF FASHION (TABLE DECORATIONS)
Fostoria Glass Co. 133
HOW FOSTORIA GLASSWARE IS MADE
Fostoria Glass Co. 731
NORTH STAR BLANKET AND WAMSUTTA SHEET CATALOGUE
North Star Woolen Mills Co. 663
TIDY CLOTHES CLOSETS
Knape & Vogt Mfg. Co. 655
CLOCKS IN THE MODERN HOME
The Clock Mfrs. Ass'n. of America 575

Kitchen and Laundry Equipment

THE DAWN OF A NEW DAY
The Walker Dishwasher Co. 454
ELECTRIC REFRIGERATION
Frigidaire Corp. 41
EBCO KITCHEN SINK
Ebinger Sanitary Mfg. Co. 638
THE GENERAL ELECTRIC REFRIGERATOR SIMPLIFIED BUDGET BOOK
General Electric Co. 665
DELCO GAS—MODERN COOKING & HEATING SERVICE FOR THOSE BEYOND THE CITY GAS MAINS
Delco Light Co. 686

Wall Paper and Wall Coverings

THE MODERN TREND IN WALL COVERINGS
Columbus Coated Fabrics Corp. 605
HOW TO MODERNIZE YOUR HOUSE WITH WALL-PAPER
Wallpaper Guild of America. 81
THE IMPORTANT POINTS OF INTERIOR DECORATION
Columbus Coated Fabrics Corp. 661
WALL COVERINGS (SANITAS)
Standard Textile Prod. Co. 78

Gardens and Grounds

Garden Furniture, Fences & Decorations

CONCRETE IMPROVEMENTS AROUND THE HOUSE
Portland Cement Ass'n. 497
PRESERVE THE CHARM OF YOUR HOME
Stewart Iron Works Co. 371
THE NEW LINCRAFT BOOK OF FENCES & FURNITURE
New Jersey Fence Co. 700
A MASTER CRAFTSMAN SUGGESTS WAYS TO ENRICH HOME LIFE
Cyclone Fence Co. 418

Gardens

WHEN YOUR TREES NEED THE TREE SURGEON
Davey Tree Expert Co., Inc. 191
HOW TO GROW ROSES
Bobbink & Atkins 676
INSECT PESTS, INDOORS & OUT
Antrol Laboratories, Inc. 336
GARDENING SUCCESS
Swift & Company 577
THE SEEDING AND CARE OF LAWNS
O. M. Scott & Sons Co. 537
HOW TO PLANT THE HOME GROUNDS
National Home Planting Bureau 632
SUCCESS IN LANDSCAPE GARDENING
American Landscape School 633
PEAT MOSS—OUTLINE OF ITS USES
Atkins & Durbrow, Inc. 698
STAR GUIDE TO GOOD ROSES
Conard-Pyle Co. 723
HOW TO KILL ANTS & PLANT INSECTS
McLaughlin Gormley King Co. 509

Garden Equipment

LAWN MAKING EFFICIENCY
Modern Machine Works 614
GOLF GREEN BEAUTY FOR YOUR LAWN
Cooper Mfg. Co. 613
LAWNS BEAUTIFUL
Jacobsen Mfg. Co. 636

Miscellaneous

TWO GOOD CLEANERS
Hygienic Products Co. 671
SIMPLE RULES FOR MOUTH HYGIENE
Johnson & Johnson 715

For my information only, will you please state briefly, the plans you have in mind which lead to your request for booklets.

Be sure that you have first looked through the advertising pages and requested booklets direct from the advertiser wherever possible.

—HEARTHSTONE EDITOR

HEARTHSTONE EDITOR, THE AMERICAN HOME, GARDEN CITY, N. Y.

1. I am planning to.....

.....

2. Please send (at no expense to me) the following booklets.
(Insert numbers from list)

.....

Name.....

P. O. Address.....

City.....*State*.....Apr. 32

Lilies for Spring Planting

American garden lovers, who have been in the habit of planting their lily gardens in the autumn, will be pleased to know that they may now secure many of the finest lily bulbs for spring planting.

This has been brought about by the wonderful advancement made in the science of refrigeration, with the result that commercial florists have been growing them to bloom at any time of the year desired from bulbs taken from cold storage.

Special Offer—12 Beautiful Lilies for $3.00

Three Bulbs Each of Four Fine Varieties

Auratum—The Golden-rayed Lily of Japan.

Regale (*Royal Lily*)—The gem discovered in the mountains of China.

Magnificum—The beautiful pink spotted Lily of Japan.

Tigrinum (*Tiger Lily*)—A famous lily widely grown in our country.

All bulbs of good out-door planting size. Plant in April and May for Summer Blooming

Our Seed Annual for 1932 sent on request

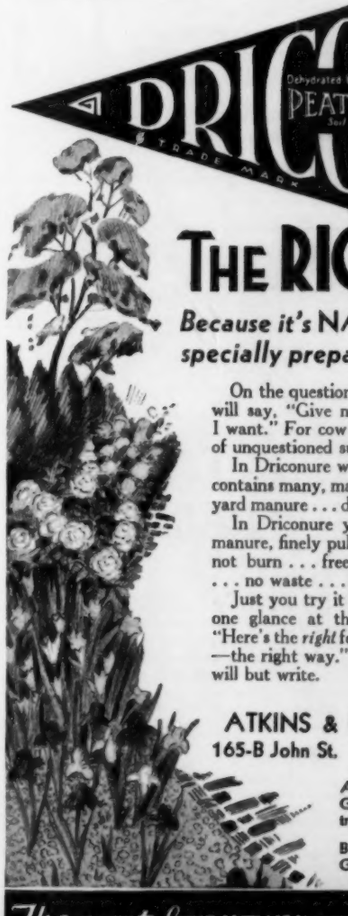
Stumpp & Walter Co

Branch Stores: White Plains, N.Y. Stamford, Conn.

132-138 Church Street
NEW YORK

Branch Stores: Newark, N. J. Englewood, N. J. Hempstead, L. I.

DRICONURE
Dehydrated Cow Manure and PEAT MOSS Soil Improver
TRADE MARK REG. U.S. PAT. OFF.



THE RIGHT FERTILIZER

Because it's* NATURAL MANURE FERTILIZER *specially prepared to cleanse—to concentrate

On the question of fertilizing, the real garden enthusiast will say, "Give me plenty of good cow manure—that's all I want." For cow manure has *proved* its value by *centuries* of unquestioned success.

In Driconure we give you good, rich, cow manure . . . it contains many, many times the food value of common barnyard manure . . . dehydration concentrates its food elements.

In Driconure your fondest wish comes true—good cow manure, finely pulverized, easy to handle, nitrogen that will not burn . . . free of weed seeds . . . no unpleasant odor . . . no waste . . . concentrated strength—humus!

Just you try it on your garden and lawn this Spring—one glance at the continued luxuriant growth tells you "Here's the *right* fertilizer because it feeds in the Natural way—the right way." We'll help along if you will but write.

ATKINS & DURBROW, Inc.
165-B John St. New York, N. Y.

Also sole distributors of G. P. M. Peat Moss; 2-bushel trial package $1.50 postpaid.

Beautifully illustrated book on Gardening with Peat Moss $1.

The most for your money-Best for your plants

No More Insects

to harm flowers,

shrubs, plants and evergreens

when you use Wilson's O. K. Plant Spray. Kills pests instantly. Recommended by officers and members of the Garden Club of America. Inexpensive too—only $3 gallon, $12 five gallons.

Trade Mark Registered

Wilson's O. K. Plant Spray is sold by leading stores everywhere and the genuine may be identified by the famous Trade Mark. Write us, if your dealer cannot supply your requirements.

Wilson's Awinc Pyrethrum Spray

Non-poisonous, higly concentrated PYRETHRUM spray. Easily controls more resistant type of insect such as **Mexican Bean Beetle,** Japanese Beetle, Red Spider, Rose Chafer, Cabbage Worm, White Fly, etc. *Complete*, requiring only a dilution with water. Gallon $10.

Wilson's Scale-O

Now is the time to use Wilson's Scale-O . . . the powerful *dormant* spray so necessary to the successful growth of fruit and other trees. Scale-O kills Scale insects and eggs—even in winter. Mixes readily in cold water . . . covers very rapidly and evenly. 1 Gallon, $2.00; 5 Gallons, $9.00.

"Insects and Their Control" by Andrew Wilson, 383 Pages, 188 Illustrations, $2.50 Postpaid.

Andrew Wilson Inc.

Dept. A4

SPRINGFIELD, NEW JERSEY

OHIO BRANCH 710 E. 113th St., Cleveland

FLORIDA BRANCH 816 58th St., West Palm Beach

CALIFORNIA BRANCH 245 N. Vries Ave. Wilmington

A budget guest room

Continued from page 20

On the drop leaf of this desk, which is open in the picture, is set out a beautiful five-piece desk set of dark green leather. On top of the desk stands a quaint vase of milk-white glass which holds a handful of flowers, a good looking small clock of chromium which is a novel square in shape, and a charming little group of a French marquis and marquise in pure white china. On the floor beside the desk is a waste paper basket covered with a decorative green and white paper, ornamented with a gay print.

In the corner between the desk and the bureau is that too seldom found, but always acceptable adjunct to comfort in a bedroom—a screen.

At the windows are long draperies of semi-glazed chintz with a pale green background and a cheerful flowered design, edged with a little pleated frill. These are two and a quarter yards long, and may be bought with their frilled tie-backs all ready to put up for a very moderate price. Instead of glass curtains there are cool looking pale green Venetian blinds at the windows.

As the entire sum to be spent on furnishing this cosy room (exclusive of carpet whose use is optional) is only $420 we think you will agree that much has been achieved for the price.

Twin beds, at $17.50 each.	$ 35.00
Two box springs, at $21.00 each	42.00
Two inner spring mattresses, at $23.50 each	47.00
Two white goose feather pillows, at $4.25 each	8.50
Two bedspreads, at $2.95 each	5.90
Two extra blankets, at $4.95 each	9.90
Booterie	19.75
Boudoir chair	18.00
Bureau and mirror	27.00
Desk	60.00
Windsor desk chair	20.50
Threefold screen	19.75
Draperies:	
Two pairs glazed chintz curtains, 2¼ yards long, with tie-backs, at $3.50 each	7.00
Venetian blinds, 80 cents per square foot	
Rugs:	
Two hooked rugs, at $15.75 each	31.50
Accessories:	
Five-piece desk set	10.00
Waste basket	1.25
Milk white glass vase, on desk	.95
China dog on booterie	2.95
Book ends on booterie, bronze peasant figures	7.50
Two glass dressing table lamps, at $3.00 each	6.00
Two novelty shades, at $2.50 each	5.00
One glass toilet bottle	1.00
One larger bottle	1.25
One glass powder jar, hobnail design, to match	1.25
Chromium square clock	12.50
Five-piece French enamel toilet set	12.50
Bureau scarf of natural linen	1.25
Table cover, 8" x 12", to match	.50
Pewter lamp with parchment shade	3.95
	$419.65

The pictures are not included in the budget, but the prices are as follows:

Two round landscapes, one on either side of the bureau, at $3.50 each	$ 7.00
Flower print over bed, mat of mirror glass, silver frame	5.50
Small metallic silhouettes, white frames, at $1.50 each	3.00
White china French figures	10.00
	$ 25.50

ROLL YOUR LAWN with this better roller *and grow richer grass*

Adjustable in weight—easier to handle—stronger. The Dunham's hollow steel drum easily filled with water or sand to permit light rolling in spring and heavier pressure as the ground hardens. Many sizes. Reduced prices. At Hardware, Seed and Dept. stores. Ask for them by the name Dunham. Note the green drum and the red handle.

FREE BOOK Write for "Proper Care of Lawns" 24 pages—Illustrated.

DUNHAM LAWN ROLLER CO., Inc. 113A Chambers St., New York, N. Y. In Canada: 262 Second Ave. Montreal

DUNHAM WATER WEIGHT ROLLER

Think Now of JUNE—

and plan to enjoy in your own garden the beauty of Star Rose Blooms . . . If you will act at once, we will send you

2 STAR ROSES for $1.00

★ National Flower Guild H.T., glowing red Star Rose. Price $1.00.

★ Director Rubie H. T. Immense blooms of cochineal pink. Price $1.25.

Also the latest issue of "Rose News" and the "Star Guide to Good Roses" for 1932.

Star ★ Roses are first quality plants, guaranteed to bloom or your money back. Act at once while this generous offer lasts. Catalogue FREE on request.

The CONARD-PYLE CO. Robert Pyle, Pres. West Grove 253 Penna.

GUARANTEED TO BLOOM

GILLETT'S

Special Plants for ROCKERIES

It is not easy for the beginner to choose from the hundreds of hardy plants I offer, those best suited for rock gardens. For this reason I offer a

Special Collection 100 Plants for $12.00

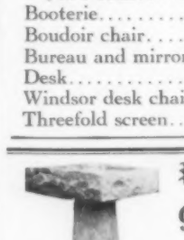
These are my own choice of ten easily grown varieties, ten plants each, all properly labeled. You may have one half the collection, five plants each of ten varieties, for $6.50.

Best Catalog Ever

tells more about all the plants that grow in my nursery, which is largely devoted to materials for naturalistic gardening. Yours free for the asking.

Gillett's Fern & Flower Farm

3 Main Street Southwick, Mass.



Purbeck-Dorset IMPORTED *Garden Ornaments*

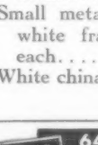
Hand Hewn from English Stone

Prices from $10.00

Illustrations upon Request

The Rowedders

887 Manor Rd., West New Brighton Staten Island, New York



64 PAGES of PRACTICAL INFORMATION on WHAT, WHEN and HOW to PLANT

The Right Answers to a Thousand Gardening Questions by Your Old Friend, Harry R. O'Brien!

From seeds and soil preparation to roses, rock gardens, pools and peonies, a complete, illustrated, practical guide for flowers, vegetables, lawn, trees, shrubs and house plants. Nearly half-million copies distributed. Ask at the store where you buy your garden tools or send 10c in coin to THE UNION FORK & HOE CO., Dept. A1, Columbus, Ohio.

KINKADE GARDEN TRACTOR

and Power Lawnmower

A Practical, Proven Power Cultivator and Lawnmower for Gardeners, Florists, Nurserymen, Fruit Growers, Truckers, Country Estates Small Farms, Suburbanites and Poultrymen.

Catalog Free

Low Prices—Easy Terms

AMERICAN FARM MACHINE CO. 1091 33rd Ave., S. E. Minneapolis, Minn.

Do You Want the Finest Garden in Your Neighborhood?

Send for Sonderegger's FREE Garden Book. 46 years' experience with native-grown seeds and trees. SONDEREGGER is an old-fashioned seed house where quality has been preserved since the first crop. Don't order seed or nursery stock until you've seen SONDEREGGER'S FREE GARDEN BOOK. It tells you how to raise fine vegetables, care for orchards, flowers, berries, etc. It costs you nothing. Address Sonderegger, 141 Court, St., Beatrice, Neb.

NEXT·BEST·TO·RAIN

The Double Rotary Junior Sprinkler gives all growing things a perfect start to vigorous and beautiful development. Distributes water more nearly like gentle rainfall than any other mechanical means yet devised. Covers any circular area from 15 ft. to 80 ft. in diameter according to pressure.

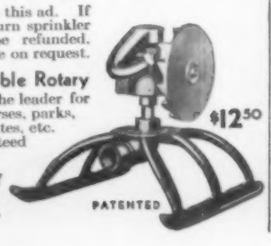
DOUBLE ROTARY JUNIOR SPRINKLER

Adjustable nozzle makes it four sprinklers in one: (1) rotating or (2) stationary sprinkler; (3) rotating or (4) stationary spray. Sprinkles with sufficient force to penetrate soil yet will not injure tenderest blossoms.

Scientifically designed of finest materials. A big water saver.

TRY 10 DAYS—Guaranteed. Order from this ad. If not satisfactory, return sprinkler and money will be refunded. Descriptive literature on request.

Heavy Duty Double Rotary (Shown at right). The leader for 13 years on golf courses, parks, cemeteries, large estates, etc. Sold on same guaranteed basis.



DOUBLE ROTARY SPRINKLER CO. 201 Coca Cola Bldg. Kansas City, Mo.

$10,000 Vegetable

FROM far-off Persia, the land of mystery and charm—from half way around the world, and at a cost of $10,000, we bring this remarkable, valuable, and delightful addition to the gardens of America. We are the only Company in the whole United States offering this seed for sale. This remarkable plant thrives in all climates and any fertile soil. A luxurious growth quickly produces an abundance of beautiful bright yellow, oblong fruits about the size of a cocoanut. When fully ripe, cook the whole fruit for 20 minutes in boiling water. Then cut it in half and, *almost like magic*, out comes a dishful of the most delightful vegetable noodle you ever tasted. Season with salt and pepper and it is ready to eat. Can be served hot with catsup or cold as a salad with mayonnaise. Price 50 cts. per packet.

INTRODUCTORY OFFER Send us 20 cts., together with the seal cut from this advertisement, and we will mail you a 50-cent packet by Prepaid Parcel Post. Remember, nowhere else in the whole United States is this wonder seed obtainable. Supply limited. Write today.

GARDEN SPOT SEAL

REMEMBER THE ADDRESS

PARADISE, PA.

LANCASTER COUNTY SEED CO., Dept. A12, PARADISE, PENNA.

50 PANSIES, ruffled-flowering mixture, beautiful markings (in bud) 85c

50 DAISY, English double, white, pink, red 85c

Order Now for Spring Delivery

VIOLAS OR TUFTED PANSIES—all colors, cornuta, odorata (in bud) 50 plants 85c

ADD 25c FOR PACKING!

Hardy Perennials, Live Forever. These Plants Are Two Years Old, Blooming Age. Each .. 5c

Columbine, all colors; Double Hollyhocks, beautiful colors; Shasta Daisies, Yellow Daisies; Hardy Carnations, 6 colors; Painted Daisies, Gaillardias, Sweet Williams, Forget-me-not, Physalis (Chinese Lantern Plant).

— Order Must Amount to $1.10 or More —

10 EVERGREENS for 85c

Three to five year old trees. 12 to 15 inches high. 4 Sitka Spruce, 2 Norway Spruce, 2 Chinese Arborvitae, 2 Biota Pyramidal. Per 100 ..... $6.00

COLORADO BLUE SPRUCE, 5 years old, two trees 85c

8-9 year old trees, 3 times transplanted, extra bushy and nicely shaped, each 85c

RHODODENDRONS (large flowering). Pink, purple and red, 1 to 1½ ft., 3 for 85c

Field-Grown Stock, 250 Acres

FREE bargain price list on Azaleas and Shrubs, Novelty Snapdragon plants, Asters, Zinnias, Calendulas, Strawflowers, Stocks, Rock Garden, plants, and Evergreens.

Order Now for Spring Delivery

The FISCHER NURSERIES

Evergreen Dept. 48 EASTON, PA.

(Add 25c for Packing)

75 Varieties of Beautiful

WATER LILIES

Send for Our Free, Completely ILLUSTRATED CATALOG

Plant WATER LILIES this Spring for lovely, fragrant blooms this Summer. 75 rare and beautiful varieties to choose from—rich colors—easy to grow. Ours are the largest Aquatic Gardens in America. Every root *guaranteed*. Write for our free, illustrated Catalog TODAY.

The W. B. SHAW

Aquatic Gardens

Dept. C Kenilworth, Washington, D. C.

LITTLE AD — BIG BARGAIN

BLUE SPRUCE

10 GENUINE COLORADO BLUE SPRUCE (Picea Pungens Glauca) 1 foot tall, five years old, twice transplanted—for only $3.95 delivered. A marvelous investment. Order now for early spring delivery. One year guarantee. Replacement without cost if unsuccessful. Finest evergreens in America.

TEN FOR $3.95

THE LIVING TREE GUILD, Dept. 33

National Headquarters for Guaranteed Living Trees

468 4th Avenue New York, N. Y. delivered!

Golden Rule Dahlias

Our 1932 Dahlia Book is now ready. It contains the Table of Ratings in a further improved form and offers the finest Dahlia varieties at reasonable prices. Don't fail to write for this unusual catalogue.

Golden Rule Dahlia Farm, Lebanon, Ohio

This New and Better

GARDEN GLOVE

of Pliable, Imported Leather

Gives You Complete Protection with Almost Bare-Hand Freedom!

You've been looking for a glove like this—a specially processed, imported leather, *soft as kid*, which gives you real *finger freedom* along with *all-leather protection* against dirt, scratches, stains, drying and hardening of the hands.

Wear them at housework, dusting, polishing—in the garden, weeding, transplanting, pruning—and at jobs around garage and basement. Dirt-proof, they keep your hands well groomed for bridge or business; economical, they outwear 6 pairs of fabric gloves and can be *washed regularly*.

Ask for "Eezy-Wear" gloves at leading department stores (Notions, House Furnishings Departments) and better seed and hardware stores. Or send 75c for pair postpaid, 4 sizes: Women's "Medium" and "Large." Men's "Medium" and "Large." THE NATIONAL GLOVE CO., Dept. A1, Columbus, Ohio.

for GARDEN HOUSEWORK BASEMENT GARAGE, etc.

NATIONAL Eezy Wear GLOVES

Cascade Chrysanthemums

T. H. EVERETT

THE Japanese "cascade" method of training Chrysanthemum already seen in some of the important fall flower shows seems certain to become popular.

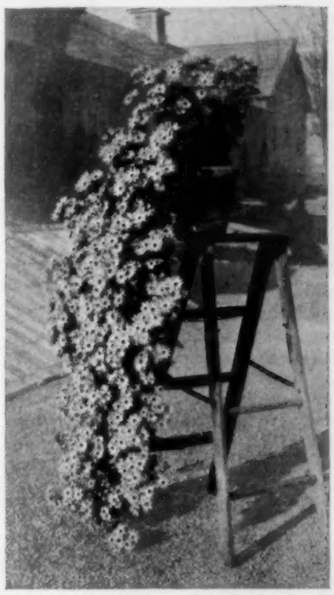
A cascade Chrysanthemum is trained so that instead of growing upwards in the usual manner the growths hang over the side of the pot in which they are grown, and when covered with flowers produce the effect of tumbling waters. This shower of blooms may be six feet or even more in length and plants trained in cascade fashion are a welcome change from those of more conventional habit and especially from the rather grotesque examples trained to such artificial shapes as airplanes, ship wheels, etc.

Only certain varieties are adapted for training in this fashion, these being small flowered singles having fairly pliable stems.

To secure good results cuttings must be rooted early and the young plants stopped to induce branching. Two or three growths selected as leaders are tied down to long stakes inserted in the pots at an angle of forty-five degrees, and throughout the growing season these are grown with the apex of the sticks towards the north so that all the side branches which develop receive full benefit of the light. These laterals must be pinched frequently to make for bushiness and a well-furnished plant, and tying the leaders to the stakes must also receive frequent attention. Towards the end of the growing season the stakes are gradually lowered until they assume a horizontal position and pinching is stopped in time to allow for the formation of flower buds.

When the buds show the stakes are very carefully removed and the growths allowed to bend over the side of the pots. Great care must be exercised that the stems are not broken during this operation and it has been found a good plan to bind raffia around the stem before the stakes are removed. As soon as the growths are lowered the plants must be turned so that they face the south—once again so that all will receive benefit of the available light. This turning of the plants so that they receive fullest benefit of the sunlight is of the utmost importance.

Other details of culture are the same as for other types of Chrysanthemums under glass.



A Chrysanthemum trained in "cascade" manner, grown on the H. E. Manville estate at Pleasantville, N. Y.

1732 GEORGE WASHINGTON BICENTENNIAL TREE 1932

STATUE-BRONZE Memorial Plaque!

When you plant a tree for Washington mark it PERMANENTLY with this beautiful solid bronze plaque. Letters and border are embossed against stippled background. Complete with attachments postpaid. Size 2½" high, 5Oc, and 6", $2.75, each. Illustrated circular and list of appropriate bicentennial trees free.

Greene's Evergreen Nursery Dover, Massachusetts

COTTAM'S DAHLIAS

If you want a good bicolor—clear red and white, grow our 1932 Introduction *Rotary*. An Honor Roll Dahlia and a favorite at last New York Show. Roots only, $10.00 each.

Ask for 1932 Catalog with full descriptions of our Dahlias.

N. HAROLD COTTAM & SONS

Dahlia Specialists

Wappingers Falls New York

GARDEN STRUCTURES

For over thirty years Hartmann-Sanders has specialized in the construction of well designed Garden Structures. These Sheltered Garden Seats, Enclosed Tea Houses, Pergolas, decorative Lattice Fences and Gates are suitable for the small city garden or large estate. Garden Structures furnished by Hartmann-Sanders are certain to give satisfaction for they are beautifully designed and constructed to stand the worst that weather can do. Prices are lowest in our history.

You may select from our Catalog, or we will design individual structures to suit your requirements.

SEND *for interesting Brochure showing many delightful examples of Hartmann-Sanders Garden Structures. Price 20 cents.*

HARTMANN-SANDERS

Factory and Showroom, Dept. C.—2155 Elston Ave., Chicago

Eastern Office and Showroom, Dept. C.—101 Park Ave., New York

Better HOSE and Gardens

When you are buying hose this spring, remember you will get far better hose value and real hose economy from the start by ordering Goodyear Emerald Cord Hose.

You can see at once that it is the finest hose on the market.

Built of super-fine materials, double-double cord, enclosed and meshed with specially compounded Goodyear rubber. Wide flat ribs give extra protection against curb and tree trunk abrasion and help it lie flat and kinkless.

Look at it—handsomest hose you ever saw, green as the lawn and shrubbery in its Emerald coat.

It will serve you for years to come, service that will far outrun the slight extra cost over ordinary hose. In ⅝", ¾" and 1" capacities and lengths to 500 ft. — from your hardware dealer.

Other Goodyear Lawn and Garden Hose are Goodyear "Wingfoot," Goodyear "Pathfinder," Goodyear "Glide" and Goodyear "Elm"

GOODYEAR

EMERALD CORD HOSE

12 Superb Exhibition DAHLIAS

VALUE $10.25

A specially chosen, unbeatable set of up-to-the-minute prize-winners at half list price; greatest value we ever sent out. Easy growers that need no coddling; here they are:—

Jane Cowl	Sanhican's Queen
Arctic Shadows	Sanhican's Red Cap
Jersey Beacon	Sanhican's Peach
Jersey Beauty	The World
Seal's Californian	Treasure Island
City of New York	Rose Fallon

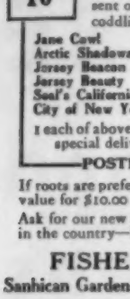
1 each of above, sturdy plants, sent special delivery, the twelve —POSTPAID FOR— $5.

If roots are preferred you get $20.50 value for $10.00 postpaid.

Ask for our new catalog—foremost of its kind in the country—FREE.

FISHER & MASSON
Sanhican Gardens (Box A) Trenton, N. J.

Select the Better Roses



This "Little book about Roses" is Free east of Rocky Mountains. Pacific Coast residents please remit 25 cents

When you purchase Roses you have a right to *expect* years of satisfactory blooms. Unfortunately many of the newest Roses imported from Europe fail to survive in American Gardens. It is our policy to protect you by offering *only* such varieties as we have found will survive and produce the best. Therefore our collection includes the better hybrid teas and the best of old time perpetuals now returning to favor. Note the brilliant array of *proved* character varieties in our "Little Book about Roses" and you will see why we can unconditionally guarantee every plant.

GEO. H. PETERSON, INC.
Rose & Peony Specialist
50 Paramus Road Fair Lawn, N. J.

6 Monthly Blooming ROSES 50¢

All Will Bloom This Summer!
Wellesley, pink; Sensation, crimson; A. Riviere, flesh; W. Cochet, white; Eldorado, yellow; Betty, variegated.
Any two in 2-year size, 50cts.

BARGAINS IN PLANTS
12 Pansies, 25c; 6 Petunias, 45c; 6 Perennials, 45c; 6 Coleus, 44c; 4 Lantanas, 25c; 3 Geraniums, 75c; 12 Gladiolus, 25c; 4 'Mums, 32c.
Postpaid, safe arrival guaranteed

SPECIAL: 10 Bridal Wreath Bushes, 2 to 3 ft., express only, for $1.00.
Free—One Rose with every $1 purchase. Catalog Free.

THE MacGREGOR BROS. CO. Box 100 SPRINGFIELD, OHIO

Amazing New Catalog

FREE TO ALL. WRITE FOR YOURS NOW. Tells you how to make money, how to plant and to beautify your home grounds at LOW COST. Rhododendrons, Evergreens, Roses, flowering shrubs, shade & fruit trees, small fruits. Strawberry plants by the million. Complete assortment for small homes or large commercial planter. Satisfaction guaranteed. This amazing new catalog is truly a directory that you will often consult.

BOUNTIFUL RIDGE NURSERIES,
BOX F. PRINCESS ANNE, MD.
For results order from "Bountiful Ridge."

WORLD'S CHOICEST NEW AND RARE PLANTS
Illustrated Catalog Free

NEW THOMSEN BLUE SPRUCE
3-6 in. grafts $2.50
5 year roots 2 for $3.95

Our own new marvelous introduction this year. Never offered before. Bluest color ever seen. Supply limited. Order NOW while they last.

2 Azalea mollis 6-10 in.	1 Azalea, pink 1 ft. $1.25
3 Rhododendron pink, red and purple 1-1½ ft.	1.25
3 Yellow Delphinium Zalil. Very rare	1.25
3 Scarlet Delphinium. Calif. type	1.25
3 Hybrid Delphinium. Blue, pink and white	1.25
1 New Red flowering Dogwood. Rare 8-12 in.	1.25
1 Japanese Magnolia Soulangeana 6-12 in.	1.25
1 New Japanese Bloodleaved Maple 8-12 in.	1.25

FREE New Hardy Butterfly Bush. Very Rare Worth $1.50. With all Orders over $6.50

12 Rock Garden Plants choicest selection	1.20
10 Sedum, Hen and Chickens. All different	1.25
12 Hardy Perennials, choicest varieties	1.20
10 Rare Rock Garden Yews and Juniper	1.95

Add 90c. for Postage and Packing.

THOMSEN NURSERY CO. Mansfield, Pa.

Waterproofing the cellar

Continued from page 28

used. If conditions are normal, that is, if your lot is in a section where the land is level or nearly level, if no streams or other water courses have ever run through the property and the drainage is good, you can choose for the foundation material whichever one you prefer. But before you do this, find out the true condition of your lot. Even under normal conditions it is advisable to waterproof the outside wall as a precaution against surface drainage.

If you are building in a valley on a lot where the ground water level rises at certain seasons, you must construct a foundation that can withstand considerable water pressure. The walls and floor of the foundation must be strong enough to keep the water out, just as the walls of a tank must keep the water in. A foundation of dense poured reinforced concrete is ordinarily recommended when the water pressure is great, for it offers a solid surface, unbroken by mortar joints. The proper thickness of walls and floor should be specified by your architect or engineer.

Even though the concrete mixture used is strong enough for a water tank, it may be wise to provide an additional safeguard, consisting of a membrane made up of layers of felt mopped with hot tar or asphaltum, laid across the footing and continued up the outside of the wall and between the sub floor and the finished cellar floor. This membrane is often protected on the outside by a layer, or tier, of brick.

Before the earth has been filled in around the foundation, the soil should be examined to see if drainage conditions are good. In sections where the earth is heavy and waterlogged, a line of drain tile, connected to the storm sewer, should be laid around the outside of the basement, level with the footing. Down spouts from the roof should also be connected to the storm sewer. For filling in the excavation, cinders or coarse gravel should be used to within a foot of the surface so that water can easily find its way into the drain. Drains are also laid below basement floors sometimes if the soil is particularly wet there.

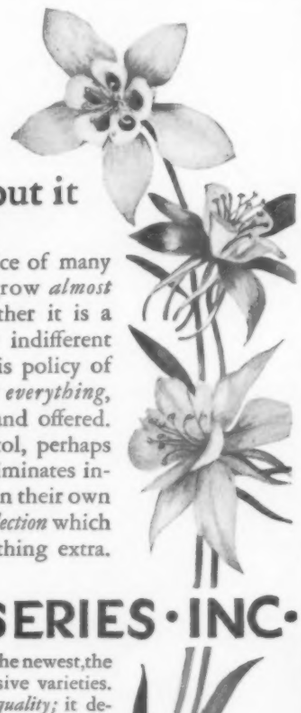
Frequently, an excavation must be dug and drain tiles laid after a house has been completed. It is possible to repair leaky basements from the inside, but it is always more satisfactory to make repairs outside, and sometimes it is impossible to make them in any other way. If a wet cellar is the result of poor drainage, the best and most economical procedure is to dig a trench and lay a proper drain tile.

It is a temptation to try other methods first, for to dig the trench may mean that the foundation planting must be disturbed. My neighbor spent several hundred dollars on different waterproofing schemes before he was finally convinced that the only satisfactory way was to attack the problem from the outside.

There are many patented waterproofing materials on the market

Pre-selection —you should know about it

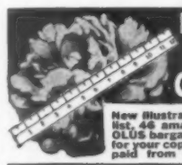
It is the practice of many nurseries to grow *almost everything*, whether it is a good, bad or indifferent variety. By this policy of having *almost everything*, much that is inferior is grown and offered. Differing from this policy, Bristol, perhaps more than any other grower, eliminates inferior and unpromising varieties in their own selections. This is Bristol's *pre-selection* which protects you—and costs you nothing extra.



BRISTOL·NURSERIES·INC·

The new Bristol catalog is a catalog of the newest, the choicest and, often, the most exclusive varieties. Admittedly, Bristol strives first for *quality;* it desires above all things to be known as a *Quality House.* Yet, its prices are no higher. You'll certainly miss some of the things you'll want, unless you have a copy of the 1932 Bristol Catalog. Address Box 10

•BRISTOL BN CONN•



NEW GIANT PEONY GIVEN FREE

New Illustrated, valuable FREE OFFER list, 46 amazing IRIS, PEONY, GLADIOLUS bargains, free this month. Write for your copy now. Shipments sent prepaid from Charles Pfeiffer's wonder gardens under money-back guarantee.

GLADIOLUS
$10 VALUE . . ONLY $2!
While they last! 100 bushels of prize-winning *Gladiolus* bulbs at way below former *wholesale prices.* Three each of 35 separate show strains, mixed and unlabeled, 105 fat, healthy, full-size bulbs (not bulblets)! Includes new and prized varieties. Yellow, white, scarlet, lavender, gray, rose, lilac, coral etc., a riot of rainbow color. Fill every vase in the house for six weeks. Only $2 brings entire assortment prepaid. Act quick.

$1 CONNOISSEUR'S PEONY BARGAIN
3 genuine, profuse-blooming, heavy-fragrant. Prize Winners. All genuine "Peony" varieties. 1 White, 1 Dark Red, 1 Shell Pink. Special introductory Offer also brings 1 Giant Dark Pink, FREE. Shipped prepaid. For All 4 Send Only $1

Pfeiffer Nursery,
Dept. B-71, Wisconsin, Wis.

AGRI-PAX
KILLS INSECTS—*PRESTO!*

The Safe Insect Spray
Non-Poisonous—Stainless
Does Not Burn Tender Foliage

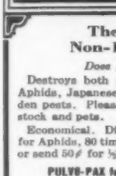
Destroys both chewing and sucking insects. Kills Aphids, Japanese and Mexican Beetles and other garden pests. Pleasant to use; harmless to children, livestock and pets.

Economical. Dilutes to 25 times its volume in water; for Aphids, 90 times its volume. Order from your dealer or send 50¢ for ½ Pint Trial Can, postpaid.

PULVO-PAX for dusting is AGRI-PAX in dry form.

MORRIS B. READE, Inc.
Dept. A, Belleville, New Jersey

WATER LILIES
TROPICAL & GOLD FISH



We supply 100 kinds of fish and 200 kinds of aquatic plants. Special Water Lily Collection, one white, one blue and one red all three postpaid in U. S. for $3.00. Large catalog free on request.

BELDT'S AQUARIUM
2143 Crescent Ave., St. Louis, Mo.

Add-A-Unit-Stake and Plant Tie
The Most EFFECTIVE, the SIMPLEST and NEATEST on the Market.

No String Required. Simply pass wire tie around plant and snap to stake. Tie adjustable to size of plant. Slip two units together for tall plants. Units consist of 24-in. rust treated tubular stake and wire tie. Lasts a life-time. The only tie that can also be used for borders. 12 Units, $1; 50, $3.75; 100, $7. prepaid.

Pat. apd. for Bauer Greenhouses, Box 2, Naperville, Ill.

WATER LILIES
At lowest prices ever offered.

COLLECTION NO. 1, 3 beautiful hardy Water Lilies, Pink, White and Yellow..... $2.00

Whether you are planning a new and fascinating Water Lily Pool or adding to your Water Garden you will be pleased with our FREE Catalogue containing Hints on Construction of Pools and care of Water Lilies and Plants and Ornamental Fishes. Its Merits your attention.

THE O'BRIEN AQUATIC GARDENS
2000 Evergreen Drive Independence, Ohio

NATIVE ORCHIDS
VIOLETS
RARE PERENNIALS
Send for Catalog
PARAMOUNT GARDENS
Plainfield New Jersey

Manure! More Manure!

You can turn every bit of vegetable rubbish—leaves, weeds, cuttings, etc., from the garden, straw and cornstalks from the farm—into real manure (best of fertilizers) **without animals** by the simple ADCO process. You owe it to yourself to know how to make artificial manure. Booklet FREE.

ADCO, 1738 Ludlow St., Philadelphia, Pa.

SUNSET DAHLIAS

1932 Bargains in Selected Choice Varieties
"Grown in the West, where Bulbs thrive"

Al Koran	$ .20	Jersey's Beacon	$ .5
Amer. Triumph	2.00	Jersey's Jewell	
Amun Ra	.20	Kathleen Norris	
Barbara Redf'n.	.75	Little Jewell	
Champagne	.25	M. W. Wilson	
Eagle Rk. Fant.	10.00	Marmion	
Edna Ferber	.20	Mrs. A. B. Seal	
El Dorado	.35	Mrs. C. Salbach	
El L'don. Shep.	2.50	Mrs. VeWarner	
Ell. Vanderveer	.35	Mrs. E. F. Smith	
Elsie Daniels	.30	Richlieu	
Ft. Monmouth	1.50	Roman Eagle	
Ida Perkins	1.00	Seal's Californian	
Jane Cowl	1.00	Sunny South	
Jersey's Beauty	.25	Susan G. Tevis	

No orders accepted for less than $1.0
Send for FREE Catalog

SUNSET GARDENS
2020 A BELANO ST., PORTLAND, ORE.

WATER LILIES

New interest and beauty in your garden with a fascinating Water Lily Pool. Gorgeous colors, exquisite fragrance, the easiest part of the garden to care for with plenty of flowers in a short time after planting. Plan it now!

Complete Water Garden Postpaid $3.
Plant California Water Lilies for their hardiness. Safe delivery guaranteed.

Illustrated Booklet **FREE.** 40 pages of Water Lily lore. Tells how to make a Water Garden; care of Water Lilies. Many natural color pictures. Send for your Free copy now

JOHNSON WATER GARDENS
Box A-4 *Since 1876* Hynes, California

CLEARANCE SALE!

We have a small surplus of about 25 fine exhibition varieties we are closing out at about one fourth their catalog prices, and while they last we will send one tuber, each of 12 varieties in assorted colors for only $5.75 postpaid, all correctly labeled, and guaranteed stock. One $5.00 tuber will be included in each order, the other 11 varieties are valued at $1.00 to $2.50 each. The biggest and best Dahlia bargain ever offered by any reputable grower. Act quickly if you want to take advantage of this big bargain offer.

12 WONDER DAHLIAS
$5.75
Value not less than $20.00

J. A. KEMP, *Glad-Dahlia Specialist*
Box 181-A. H., Little Silver, New Jersey

New and Rare Flowering Shrubs

Autumn Oleaster, Golden Chain, Tree Spirea, apple-blossom Japanese Flowering Quince, Tree Wisteria, and other novelties described in "Worthwhile Flowering Shrubs" our new booklet—free on request.

A. M. LEONARD & SON
601 Wood St. Piqua, Ohio

BLIGHT-RESISTANT **Chestnut Trees**
Hybrid Hickories
Hardy Illinois Pecans
Grafted Black Walnut Trees
Write for sizes and prices
SUNNY RIDGE NURSERY
Round Hill, Virginia

CACTI *Blooming Size*

All labeled with correct names. Satisfaction guaranteed. PREPAID.
One each of 25 varieties..... $4.00
10 different varieties with 8" Mexican bowl..... 3.00
—same without bowl..... 1.75
5 varieties with 5" bowl..... 2.00
—same without bowl..... 1.00
Cactus seed 25c per package. Cacti cultural book free with orders.

MEXICAN TRADING CO., 413 Two Republics Bldg., El Paso, Tex.

Ferry's SEEDS

Buy Ferry's purebred Seeds in fresh dated packets. For sale at the store around the corner.

Write for 1932 beautifully illustrated Home Garden Catalog *free.*

FERRY-MORSE SEED CO.
San Francisco, Cal. Detroit, Mich.

Waterproofing the cellar

which are most satisfactory when used according to directions.

When you pay high prices for waterproofing, it is not the materials for which you are paying, but the labor. A man who is handy with tools can frequently do the job himself, but if the leakage is really bad, a skilled mechanic must be called in.

The handyman, for example, can make repairs when there is seepage through cracks or mortar joints in stone, brick, or other masonry. First mark the portions of the wall or floor through which the seepage occurs. Then, having armed yourself with a calking tool, a good putty knife, a stiff fibre brush, a piece of metal lath, some cement, sand and tar, you are ready to get down to the actual work.

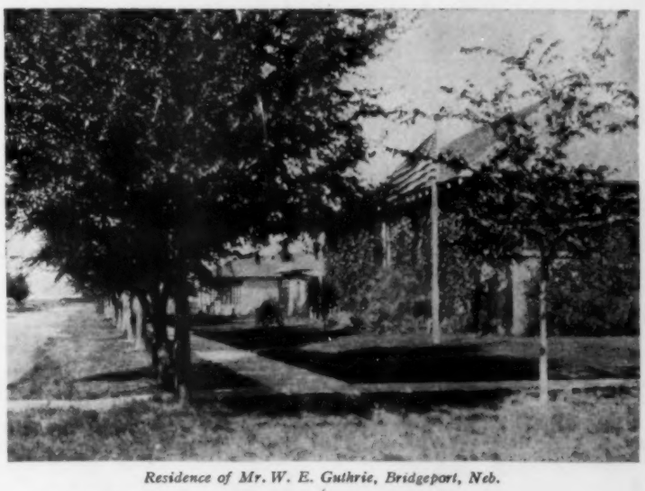
A ditch extending to the bottom of the foundation and wide enough for a man to work in must be dug, either around the entire house or on the side where the leakage occurs. Then the wall must be cleaned and all loose material removed. Cracks should be cut back to form a V-shaped groove, and then filled with a mortar of one part cement to one and one half parts sand. The mortar must be rammed in with a calking tool so tight that no seepage is allowed. Do not mix more of the mortar than you can use within half an hour, for unless it is of the right consistency and moisture, it will not produce a satisfactory job. Also make certain that the foundation wall is dry before you begin to work; otherwise, your mortar will not bond with the wall.

A leak where the floor joins the walls is somewhat more difficult to eliminate. Cut out a groove two inches deep, remove all loose material carefully, and then fill with hot tar or a mixture of tar and sand.

After the faulty joints and cracks have been repaired, the entire foundation wall should be covered to give it extra strength. Cement grout, tar, pitch, or asphaltum can be used if the leakage has been caused by poor drainage or faulty construction. Tar, of course, is easier to handle and can be applied more quickly than the cement. But whether you use cement or tar, the wall on which you are going to work should be carefully cleaned and absolutely dry. If possible, waterproofing should be done either before or after the period in which there is the heaviest rainfall. Even a light shower may ruin the repair work.

If cement grout is used, make a mix the consistency of thick cream, using one part cement to two parts of sand, and apply this to the wall. Before it has had a chance to dry, apply a second coat, three eighths of an inch thick, one part cement to two parts sand. This coat must be worked well with a wooden float. As soon as it has hardened sufficiently, it should be scratched with a piece of metal lath so that it will hold the final coat of mortar. The mix for the final coat should contain just enough water to make a stiff plaster.

Repairs can also be made from the inside, if it is impossible to make them outside. Cracks and joints should be



Residence of Mr. W. E. Guthrie, Bridgeport, Neb.

CHINESE (or SIBERIAN) ELM

The fastest growing tree we know!

The picture tells the story

Compare the American Elm at right, 7 feet high when planted in 1917, with the row of Chinese Elms at left, only three feet high when planted in 1918. Picture taken in 1924. A row of beautiful matured shade trees in six short years.

For Street Planting, Wind Breaks, Screens or Individual Lawn Trees

There are two strains of Chinese Elm. Our stock is genuine North China Strain, guaranteed, as introduced by the U. S. Department of Agriculture.

Very hardy, it thrives in any climate from bleak Saskatchewan to torrid Arizona. It leaves out early in Spring and retains its foliage until late Fall. The tree is graceful in form and very adaptable to shaping as desired. On all points this Chinese Elm is one of the most valuable trees ever introduced into America.

Complete descriptions of these true Chinese Elms that grow 27 feet in 6 years, together with hundreds of other choice fruit and ornamental trees, flowering shrubs, plants, evergreens, perennials, etc. with illustrations in color are in our **1932 Catalogue—Mailed free on request.** Write for it to

GLEN BROS., INC. **1773 Main Street**
Glenwood Nursery (Est. 1866) **Rochester, N. Y.**
"We furnish the home—OUTDOORS"

Here's a Real Grass Cutter!

and a twist of the wrist guides it!

27" cut

The SUPER-DETROIT Moto-Mower

Breaks all Performance Records

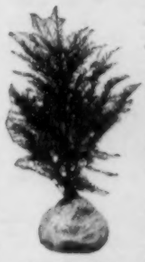
The ease and efficiency with which the SUPER-DETROIT cuts 5 acres daily will amaze you. An exclusive new L-head motor, selective automatic speed control and "twist of the wrist" guiding make simple work of tough grass, steep grades and short turns. Investigate this MOTO-MOWER value that can't be beat at any price! Catalog free.

The MOTO-MOWER Co.
4604 Woodward Ave. Detroit, Mich.

Please send me FREE your 24-page catalog showing the entire MOTO-MOWER line in complete detail.

Name _____
Address _____
City _____ State _____

Young Aristocrats



Unusual and rare types... hardy, field-grown grafts ...Balled and Burlapped.

Japanese Blood-leaf Maple
Splendid dwarf tree—most brilliant color
10 to 15 in. (10) $10.00 (100) $90.00

Red-flowering Dogwood
Fine native tree
12 to 18 in. (10) $9.00 (100) $75.00

Koster's Blue Spruce
Charming evergreen with startling silver blue needles
2 yrs. 8-10 in. (10) $13.50 (100) $120.00

SPECIAL:—One each of these four aristocrats postpaid for $6.00 east of Mississippi.

Japanese Yew
Hardy, dense, upright tree, 15 to 18 in. $17.00 for ten

Our Short Guide (55 color-photos) free on request.

Kelsey Nursery Service
50 Church St. New York, N. Y.

Burpee's Garden Book Free

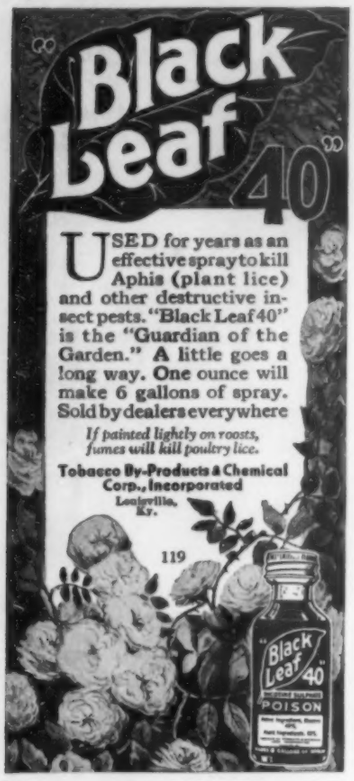
It describes all the best vegetables and flowers, including 117 NEW varieties. Best quality seeds as low as five and ten cents a packet. Hundreds of pictures, many in natural colors, and a wealth of planting information. LUTHER BURBANK said: "Your catalog is a gem. I always refer anyone asking for seeds to your firm as I consider your house the most reliable retail house in the world."

Lovely NEW Flowers

This year Burpee's Garden Book contains some of the finest novelties we have ever offered. Write today for your free Book.

Burpee's Seeds Grow

W. ATLEE BURPEE CO.
976 Burpee Bldg. Philadelphia


Black Leaf 40
USED for years as an effective spray to kill Aphis (plant lice) and other destructive insect pests. "Black Leaf 40" is the "Guardian of the Garden." A little goes a long way. One ounce will make 6 gallons of spray. Sold by dealers everywhere
If painted lightly on roosts, fumes will kill poultry lice.
Tobacco By-Products & Chemical Corp., Incorporated
Louisville, Ky.
119
Black Leaf 40
POISON

BE CERTAIN!

. . . Don't depend upon gossip for your gardening information. Let experts advise you . . . learn from them practical, sound ways to improve your garden. They know the little tricks and touches to which plants respond. Contributors to the Gardeners' Chronicle are experienced gardeners, authorities who know their subjects thoroughly. Subscribe now, and enjoy their advice throughout the garden year. 13 months for $2.00, single copies 25c.

GARDENERS' CHRONICLE
522-A Fifth Ave., New York City

"Bulbs in a Class All Their Own"
Will hold their own even though snow and ice covers their beds now. Instructive free catalog ready in April.
ZANDBERGEN BROS.
"Tulipdom," Oyster Bay, N. Y.

MILBRADT POWER LAWN MOWERS

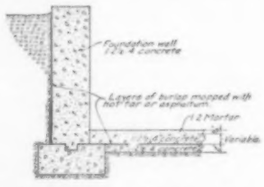
MAKE play of the grass-cutting job. They cut and roll at the same time and develop beautiful lawns. Made in different sizes from 20 inches to 60 inches and are so easy to operate a 12-year-old boy can run one. Write for free catalog.

MILBRADT MANUFACTURING CO.
Established 1895
2402-04 No. Tenth St. St. Louis, Mo.

Waterproofing the cellar

cut back similarly to the way the work is done outside. But before doing an "inside job" make certain that the walls are entirely dry. If they are not, the cement will not bond with the wall.

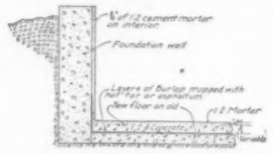
Seepage through cracks in the floor or through porous spots caused by improper mixing or placing of the cement can only be satisfactorily repaired by laying a new floor. Although merely laying a new floor over the old one will probably eliminate the leak, the best way to make the repair is first to cover the floor with layers of felt which have been mopped over with tar. As was suggested earlier in this article the membrane of felt should extend up the basement wall for a foot or more, to insure against a leakage between wall and



A cross section diagram showing concrete basement construction against ground water pressure in low ground

floor. For the new floor, use a mix one part cement, two parts sand, and four parts crushed stone or gravel. Unless special conditions are to be met, the new floor should be approximately three and a half inches thick.

Down spouts from the roof often cause wet cellars. Because of carelessness, builders sometimes fail to provide a means for the water flowing



Repairing basement to prevent entrance of ground water. Construction suggested where outside of wall cannot be reached nor drainage of foundation provided

down through the spouts to flow away from the foundation, and the constant dripping finally causes a leak. If your cellar is wet, first make an inspection of all the down spouts and gutters to discover whether the leaks are caused by the dripping of water from the pipes.

Occasionally, a cellar is damp although no leak can be found. The walls may be covered with beads of moisture or they may be actually wet, merely because the cellar is not properly ventilated, and moisture has condensed on the walls. Keep the cellar windows open when the air is dry, but on days of great humidity, shut the windows tightly. A cement paint which is also waterproof is often sufficient to protect against mild seepage and may well be used to cover any waterproofing material and increase its effectiveness.

Have you read any Kipling lately?
The Pocket Edition is just right for travelers.
—AT ALL BOOKSTORES

GROW GLADIOLUS *the glorious flower of summer!*

Easy to Grow—Sure to Bloom
Infinite Variety of Colors

100 Large, Healthy Vermont Bulbs **$3.00** *postpaid*

This collection is our "get acquainted" offer. Contains 40 fine varieties in many shades of red, yellow, pink, blue, smoke, orange, white. All fine varieties but not labeled. If labeled would cost $11. This collection is not to be compared with the ordinary collection put out by other growers. It is in a class by itself. **50 for $1.75.**

Collection of Exhibition Varieties

3 bulbs each of the varieties listed below. These are among the very finest exhibition varieties in existence. All labeled. 30 bulbs worth $3.20 at my low prices for $2 prepaid. Some growers would charge $5-$6 for these. This collection is not in my catalogue, but is for American Home readers only.

3 MINUET, finest lavender.
3 CARDINAL PRINCE, cardinal red.
3 MARMORA, smoky gray, wonderful new shade.
3 W. H. PHIPPS, salmon-rose. Most popular variety in America.
3 AFLAME, immense rose, shading to flame.
3 BETTY NUTHALL, very fine orange-salmon.
3 CATHERINE COLEMAN, salmon-rose.
3 GOLDEN DREAM, finest clear, deep yellow.
3 MRS. P. W. SISSON, light pink.
3 YVONNE, white, cerise spot in throat.

Send for illustrated catalogue which lists the finest varieties from all over the world.

CHAMPLAIN VIEW GARDENS
Elmer E. Gove Box K-6 Burlington, Vermont

100 EVERGREEN TREES $3.—

100 of any variety or 25 of each kind
$3.00

American Arborvitae	6-12 inches
Red Pine	8-15 inches
Norway Spruce	5-12 inches
White Spruce	5-10 inches

Hardy, Maine grown Evergreens that will make your home surroundings more beautiful than ever. Four year transplanted and well rooted. Will thrive anywhere and grow rapidly.
Average weight 12 lbs. per 100. No order less than 100 at this price; remit with order. Trees sent at proper time for planting. Send for folder on blue spruce and other beautiful varieties.

WESTERN MAINE FOREST NURSERY
Dept. AH-32 Fryeburg, Maine

Gladiolus Book Free
Send for my new 36-page GLADIOLUS BOOK describing 183 exquisite varieties, many new. Tells how to grow. 45 illustrations. It's free. Write to-day. My famous beautiful RAINBOW COLLECTION of thirty bulbs, all different named varieties, but not labeled, blooming size, $1 postpaid. Satisfaction guaranteed.
Howard M. Gillet, Gladiolus Specialist
Box 252, New Lebanon, N. Y.

Buist's Seeds
FOR BETTER GARDENS
DEPENDABLE FOR 104 YEARS
Garden Guide and Catalog
Mailed FREE on Request
FREE FLOWER SEEDS WITH EVERY ORDER
ROBERT BUIST COMPANY
DEPARTMENT T PHILADELPHIA, PA.

IMPERIAL DELPHINIUMS
(all colors in mixture)

In one mail I received inquiries about my Imperials from 6 persons who had been referred to me by delighted Imperial growers. 7-10 feet high—Giant stocks, mammoth blooms (up to 3¾ inches). They sweep the flower shows when competition is keenest. Blooming size plants $8. per doz. $18. per hun. Seeds $2. per pk. of 400. Special—100 transplants (small) for Sept. blooms—20 large plants—1 pkt. of seed, $8. Double order $15. Seeds and plants guaranteed.
Catalog on request
E. E. Healey, Exclusive Grower, Puyallup, Wash.

12 Wonderful Gladiolus from France and Holland, only 25c
Gorgeous colors. No two alike. Plump, vigorous, blooming size bulbs. Reds, whites, pinks, salmons and lavenders. Also our catalog describing 1000 varieties of Peonies, Irises and Gladiolus. A package of rare Lily Seed from China FREE with every order. We pay the postage. This is the best offer ever made to lovers of flowers.
Indian Spring Farms, Inc. Box A, Baldwinsville, N. Y.

CALIFORNIA YUCCA

Add California color to your garden! Glorious desert YUCCA (Spanish Dagger) and packet of easy-to-grow California wildflower seeds sent post paid for introductory price of $1.00. Special price list of other California flowers enclosed. Send check with order or pay postman on arrival. Write now.
SPECIAL NOTICE
LOS CERRITOS GARDENS
P. O. BOX 394 LONG BEACH, CALIFORNIA

Delphinium "Dreams of Beauty"
Hybrid Seedlings—15 for $1.00 — 100 for $6.00
Postpaid. Will bloom this year. Probably the largest, most ideal, hardy, disease resistant and best suited to American climate strain, ever produced. (A Dieter production). Single and double blooms of livest iridescent colors, from palest blue to deepest indigo. Many with pink fillings. Satisfaction guaranteed.
Send for list of other excellent perennials.
Hereford's Gardens Oakford, Illinois

TREE PEONIES
Comprehensive assortment at $3 to $65 each. Descriptive catalogue mailed *free* on request.
FRENCH LILACS
Sixty best varieties available from our collection of 150 kinds. Catalogue giving full descriptions and prices mailed *free* on request.
FARR NURSERY CO., Box 104, Weiser Park, Pa.

Sound, expert advice by the best known gardening experts in every issue of *The American Home*, a new home and garden magazine that sells for only $1 a yr. Address, Garden City, N.Y.

NOW—nothing to mowing but walking!

LAWN-BOY Power Mower

Automatic Start-Stop Control

POWERFUL, quiet, fully-muffled, air-cooled motor does *all* the pushing—also whirls the 18" cutting blades. Runs thru tough, long grass that would take hours of drudgery with a hand mower. Actually mows half a foot closer to walls, trees and hedges. Scoots up and down or lengthwise of any terrace that will grow grass. In one afternoon, will mow six to eight lawns of 100-foot lot size at a fuel cost of about a dime. Costs no more than a good hand mower when neighbors split low cost of only $96.50! *Easy Terms.*

Only $96.50

Easy Terms

Agents Wanted

Women and children operate Lawn-Boy easily, because of three big, exclusive features: 1. *Light weight,* only 85 pounds; 2. *Free wheeling;* 3. *Automatic Hand-Grip Control*—push forward and mower starts; pull backward and mower stops without stopping motor . . . *Send today for FREE literature and time-payment information. Address:*

LAWN-BOY, 105 W. Hope St., Milwaukee, Wis.
Division of Outboard Motors Corporation

Built and Guaranteed by EVINRUDE and Elto

NO FUSS WITH THIS SPRAY

Nicotine Pyrox kills bugs and controls disease. Save your garden from *all* bugs and disease with this *one* spray. Nothing to add but water. See your hardware or seed store today.

Bowker Chemical Co. New York, N.Y.

Nicotine Pyrox

STANDARD GARDEN TRACTOR

Plows Seeds Cultivates Mows Hay and Lawns

A Powerful Gas Tractor for Small Farms, Gardners, Florists, Nurseries, Fruit Growers & Poultrymen

AMPLE POWER Handles Field & Truck Crop Tools—Lawn and Hay Mowing

EASY TERMS

Runs Belt Machines, pumps, saws. High Clearance—Enclosed Gears.

CATALOG FREE

Write Today, for Illustrated Catalog and Easy Payment Plan.

Walk or Ride

STANDARD ENGINE CO.

Minneapolis, Minn. 3248 Como Ave. Philadelphia, Pa. 2453 Chestnut St. New York, N.Y. 174 Cedar St.

DAHLIA PLANTS OF QUALITY

First Class Plants only. Try them and be convinced.

The following 12 plants for $6.00. Worth $12.00
Chemar's Eureka, Harry Mayer, Jersey Beauty, Regal, Fort Monmouth, Jane Cowl, King Midas, Thomas A Edison, Frank Miller, Jersey Beacon, Margaret W. Wilson, Treasure Island.

Order at once. State shipping date. Ask for full List.

A. MUELLER DAHLIA GARDENS
P. O. Box 72 Passaic, New Jersey

Pure SHEEP MANURE

This natural, weedless plant food makes lawns and gardens grow **amazingly.** Supplies humus and all elements necessary for healthy growth. A lasting soil builder, **safe** and **easy** to use. Surprisingly economical. Send for interesting free circular "How To Make Better Lawns and Gardens."

The Pulverized Manure Co.
52 Union Stock Yards, - Chicago

Give a thought now to Chrysanthemums

Continued from page 8

varieties. But in this case with the ever changing list of varieties associated with better bloom performance and hardiness, it does not now seem desirable to mention varieties by name. Just select from the dealers' lists to suit your fancies.

Starting with young plants in the spring, a little care the first few months is essential. In order to make handsomely formed bushes that will give bountifully of their bloom, it is necessary by a process of disbudding, that is pinching out the growing tops of the plants, to thus form anywhere from three to a dozen or more branches, which will in time, each be covered with buds. This process should begin when plants reach a height of four or five inches, the pinching out of the tip of each succeeding branch to follow as growth of these progresses to several inches more.

Later when the buds form, further disbudding may be practiced depending on whether one wants fewer and larger blossoms or many and, if the latter, no buds should be touched at all. If the former, pinch out all but the strongest appearing bud when still small, being sure not to injure the bud remaining to each branch. Some of the Pompons can be formed into more handsome sprays by slight disbudding.

However the plants may be grown, one can by a judicious selection of plants blooming early to late, have the Glory of the Autumn in bloom from early August to late November, and in some favored localities well into December.

Goldfish in lily pools

IN THE AMERICAN HOME for March, the article by Miss Julia A. Howell on Lily Ponds Without Mosquitoes caught my attention. While it is likely that she is quite well posted on some things, I think she does not know all about goldfish.

It is quite true that the highly bred Japanese Fringetails and Calico Fantails may be rather sluggish but there is nothing much faster than our common goldfish or the Cometails, and to this same group belong the Shubunkins. Goldfish are certainly more beautiful in the waterlily pond than the minnows, and it is my observation and experience that they are sufficiently effective in keeping control of the mosquito larvae. Actual facts must count for something.—Chas. L. Tricker,

Saddle River, N. J.

MICHELL'S *Everblooming*

One of the really satisfactory cut flowers whose sweet scent endures in garden and home alike—and perfectly hardy, too—needing even less protection than you would give the hardy rose.

Butterfly Bush

{Buddleia Variabilis Magnifica}

For these many years past Michell's Butterfly Bush has been blooming its way into the hearts of garden lovers.

A hardy shrub of remarkably rapid growing habits it attains the height of about four feet the first season and is a bower of bloom through most of the gardening year. Its abundance of flower spikes in most cases measure about eight inches long; each spike formed of countless miniature florets that are a gorgeous blending of lilac and heliotrope.

Three plants of this marvelous shrub will furnish endless joy to the flower lover throughout the growing season and will prove an irresistible magnet to the butterflies who will daily pay homage to its loveliness.

Extra strong plants which will bloom the first season, 3 for $1.15; 6 for $2.00; 12 for $3.50, postpaid. 25 for $6.00; 100 for $20.00; by express, not prepaid.

MICHELL'S 1932 CATALOGUE

is a helpful book of 184 pages, describing the best in Flowers, Vegetables, Bulbs and Plants, also every aid for the flower and vegetable garden, farm and lawn, dependable fertilizers, insect destroyers, garden and lawn tools, etc.

SEND FOR YOUR FREE COPY TODAY

MICHELL'S SEEDS

520 Market St. Philadelphia, Pa.

A Wonderful Collection of 6- to 7-year-old trees, 1 to 1½ ft.
2 Mugho Pine (Dwarf)
2 American Pyramidal Arborvitae
2 Silver Fir, 2 Canadian Hemlock

Colorado Blue Spruce
8-year-old Trees, Sheared.....$1.50
7- to 8-year Trees, each.....$1.25
All trees selected

3 RHODODENDRONS $1.25
Flowering Evergreens, well rooted. Pink, Red, Purple; 1 to 1½ feet stock.
2 Nikko True-blue Hydrangeas, $1.10

Cedrus Deodora
Himalayan God-Tree
World's most beautiful evergreen. Sparkling Blue Foliage. Heavy trees. 2 feet. This month only! Each $1.80

12 Hybrid Oriental Poppies.....$1.20
6 Red Delphinium, Cardinalis.....$1.20
12 Hardy Blue Salvia, Azurea.....$1.20
8 Japanese Exhibition Chrysanthemums $1.20
Pink, Lavender, Bronze, Yellow, White
6- to 8-inch wide blooms
12 Assorted Perennials for Border....$1.20
12 Assorted Perennials for Cutting....$1.20
12 Assorted Perennials for Rockery....$1.20
4 Assorted Rockery Evergreens.....$1.20

6 FLOWERING SHRUBS $1.50
1 Spirea Anthony Waterer, Red
1 Lonicera, Pink.
1 Spirea Van Houttei, White
1 Rose of Sharon, Double Purple
1 Philadelphus, White and Yellow
1 Butterfly Bush, Lilac
All 2-year shrubs

Add 25c for Packing and Postage
NEW MARKET PERENNIAL GARDENS
86 Randolph Road, New Market, N. J.

SIBERIAN ELMS . . $1

BEAUTIFUL SHADE TREE GROWS LIKE MAGIC

Here's one of the biggest tree bargains ever offered. 2-3 ft. high when delivered. Very hardy. In a few years this fast growing tree gives beautiful shade. Its rapid growth is amazing. One year guarantee on every tree. Get several at a time. Save money. ONE for $1; TWO for $1.85; THREE for $2.65; DOZEN for $9.45. All charges prepaid. Order now.

The Living Tree Guild, Dept. 41
National Headquarters for Guaranteed Living Trees.
468 Fourth Ave., New York, N. Y.

Flower Grower

A magazine specially edited for gardening enthusiasts. Intensely practical, stimulating and helpful. Tells you all about Flowers. Each issue contains more facts on flower growing than any other magazine.

Sample copy 10c. Introductory offer—seven months $1.00. Address
FLOWER GROWER
107 N. Bway., Albany, N. Y.

GLADIOLUS

AT REAL THRIFT PRICES

55 bulbs 1" and larger for $1.00; 100 bulbs $1.80. These will produce gorgeous flowers of a well balanced mixture of colors. Send for illustrated book describing over 200 varieties. Many are importations from Europe, Australia and New Zealand. Also the best of American origin. This book is FREE!

NATHAN VAN DE CAR
128 Strong Ave. Syracuse, N. Y.

Hammond's SLUG SHOT Kills Garden Insects

For over half a century, **SLUG SHOT** has been the most effective, safest, most economical, and easiest-to-use general purpose insecticide. Kills insects on flower and vegetable plants. Simply dust it on from sifter top can.

GRAPE & ROSE DUST (fungicide) prevents Black Spot on Roses, Powdery Mildews, Blights, Rusts, and other fungus growths. Packed in sifter top can.

HAMMOND'S WEED KILLER destroys weeds, poison ivy, and all vegetation on walks, drives and along roadways.

Slug Shot and all Hammond Products are sold everywhere by Seed, Hardware and Drug dealers.

HAMMOND'S

Ask your dealer for *Free Booklet* "Garden Enemies—How to Control Them" or write direct to us for your copy.

Hammond Paint & Chemical Co.
2 Ferry Street
Beacon, N. Y.

If You Love BIRDS

Joseph H. Dodson

Send for Joseph H. Dodson's interesting book—"*Your Bird Friends and How to Win Them.*" Beautifully illustrated with more than 50 actual photographs of bird life. Mr. Dodson, long recognized as America's foremost bird authority, tells all about attracting birds to your premises—the kind of Houses, Feeding Stations, Shelters and Baths they prefer.

You will get untold pleasure from the song birds—listening to their cheery songs and watching their interesting habits. They are useful too, as they destroy cut-worms, bugs, moths, flies, mosquitoes and other destructive insects.

Four Room Wren House takes care of the season's brood. Solid oak, cypress shingles, 21 inches high—or Bluebird House same size, hanging or pole style, $7.00.

THINK OF IT, a family of martins on your premises will destroy thousands of mosquitoes a day. They capture them on the fly. Dodson's Bird Houses are a permanent investment . . . last a lifetime. There is a Dodson house for every desirable bird. Write for the Dodson book sent Free.

Dodsons' 28 room Cottage Style Martin House. 22-in. high . . . Price $18.00—With easy raising pole $25.00.

JOSEPH H. DODSON, INC., "*Bird Lodge*"
52 Harrison St. Kankakee, Ill.

Ask for a description of
THE NEW NATURE LIBRARY
Doubleday, Doran & Co.

A Rich Persian Design. 15 sizes. Actual Photograph.

Save ½
Send Old Rugs
Clothing—*Our Expense*

By the Olson *Patented Process* we are able to reclaim the valuable material in all kinds of rugs, carpets, clothing and weave soft, luxurious seamless rugs in popular one and two tone colors, or rich Oriental designs. Any standard size in a week. *New Low, Thrift-Time Prices.* Week's Trial. We guarantee to satisfy you or pay for your materials. *Our 58th Year. Largest Rug FACTORY Dealing Direct With Home.*

FREE BOOK
Rugs and Home Decorating
Model Rooms in Colors
Mail Free Catalog and Surprise Offer

Name .....
Address .....
Town ..... *State* .....

Mail to OLSON RUG CO.
2800 North Crawford Ave., Chicago, Dept. M-15
OR—Nearest Display Room shown below
Chicago, 2800 N. Crawford Ave. New York, 245 Fifth Ave.
Cleveland, 403 Euclid Ave. Philadelphia, 401 N. Broad
St. Louis, 585 N. 7th St. Boston, 453 Washington St.
Milwaukee, 152 W. Wisconsin Washington, 511-11th, N.W.
Minneapolis, 512 Nicollet Ave. Pittsburgh, 319 Fifth Ave.
San Francisco, 200 Davis St. Detroit, 35 E. Grand River
© O. R. C., 1932

Index to Advertisers—April, 1932

Building Materials

PAGE

Bathroom Fixtures & Plumbing Supplies
The American Brass Co. ..... 33 and 44
W. A. Case & Son Mfg. Co. 43

Fireplaces & Accessories
Bennett Heater Co. 44
Columbia Mantel Co. 43
The Heatilator Co. 37

Garbage Incinerators, Sewage Disposal & Water Systems
San Equip, Inc. 48

House Building Materials
Armstrong Cork Co. 1
Shevlin Pine Sales Co. ..... Third Cover

Paints, Varnishes, etc.
Samuel Cabot, Inc. 37
Schalk Chemical Co. 37

Portable & Ready Cut Houses
Gordon-Van Tine Co. 48
Pope & Cottle Co. 48

Roofing & Shingles
Johns-Manville Corp. 35

Windows, Doors, Screens, etc.
Libbey-Owens-Ford Glass Co. 51
Rolscreen Co. 40

Gardening

Seeds, Bulbs & Nursery Stock
Beldt's Aquarium 62
Bobbink & Atkins 56
Bountiful Ridge Nurseries 62
Brand Peony Farms 66
Joseph Breck & Sons 58
Bristol Nurseries, Inc. 62
Robert Buist 64
W. Atlee Burpee 63
Los Cerritos Gardens 64
Champlain View Gardens 64
The Conard-Pyle Co. 60
N. Harold Cottam & Sons 61
Dahliadel Nurseries 58
Henry A. Dreer 53
Farr Nursery Co. 64
Ferry-Morse Seed Co. 63
The Fischer Nurseries 61
Fisher & Masson 62
H. M. Gillet 64
Gillett's Fern & Flower Farm 60
Glen Bros. 63
Golden Rule Dahlia Farm 61
H. C. Haake 66
E. E. Healey 64
Hereford's Gardens 64
The Indian Spring Farms, Inc. 64
Johnson Water Gardens 63
Kelsey Nursery Service 63
J. A. Kemp 63
Lancaster County Seed Co. 60
A. M. Leonard 63
The Living Tree Guild ..... 61 and 65
The McGregor Bros. Co. 62
Mexican Trading Co. 63
Michell's Seeds 65
A. Mueller Dahlia Gardens 65
New Market Perennial Gardens 65
The O'Brien Aquatic Gardens 62
Paramont Gardens 62
George H. Peterson 62
Pfeiffer Nursery 62
Max Schling, Inc. 53
W. B. Shaw Aquatic Gardens 61
Somerhousen Dahlia Gardens 66
Sonderegger Nurseries 60
Stumpp & Walter 59
Sunny Ridge Nursery 63
Sunset Gardens 62
Thompson Nursery Co. 62
Totty's 57
William Tricker, Inc. 55
Nathan Van De Car 65
Wayside Gardens 53
Western Maine Forest Nursery 64
Wirth 66
Zandbergen Bros. 64

Garden Furniture & Decorations
Green's Evergreen Nursery 61
Hartmann-Sanders Co. 61
Rowedders 60

Gardening, Miscellaneous
Adco 62
Atkins & Durbrow 59
The F. A. Bartlett Tree Expert Co. 54
Bauer Greenhouses 62
Bowker Chemical Co. 65
Hammonds Paint & Chemical Co. 65
The National Glove Co. 61
Pulverized Manure Co. 65
Morris B. Reade, Inc. 62

Gardening (*Cont.*)

PAGE

Tobacco By-Product & Chemical Corp, Inc. .. 64
The Union Fork & Hoe Co. 60
Andrew Wilson, Inc. 60

Lawn Mowers Lawn Rollers and Garden Tractors
American Farm Machine Co. 60
Dunham Lawn Roller Co. 60
Jacobsen Mfg. Co. 56
Milbradt Mfg. Co. 64
The Moto-Mower Co. 63
Outboard Motors Corp. 65
Standard Engine Co. 65

Sprinkling & Water Systems
Double Rotary Sprinkler Co. 60
Goodyear Tire & Rubber Co. 61

House Furnishings

China, Pottery and Glassware
Fostoria Glass Co. 42

Drapery & Upholstery Fabrics
Martin Mfg. Co. 44

Floor Coverings
Clinton Carpet Co. 41
Collins & Aikman Corp. 49
Mohawk Carpet Mills. ..... Second Cover
Olson Rug Co. 66

House Furnishings, Miscellaneous
The Bassick Co. 48
The A. E. Boyle Co. 38
Justrite Mfg. Co. 48

Interior Decorations
H. L. Judd Co. 48
Kirsch Co. 50

Kitchen & Laundry Equipment
Clay Equipment Corp. 48
General Electric Co. 2
Inland Mfg. Co. 42

Wall Paper & Wall Coverings
Columbus Coated Fabrics Corp. 42
Standard Textile Products Co. 44

Miscellaneous

Birdhaven 66
Colonial Yarn House 44
The Eastern Rabbitry 66
Lafayette Corp. 66
D. W. Onan & Sons 66

Poultry, Kennels and Bird Houses

Joseph H. Dodson, Inc. 66
New Jersey Fence Co. 66

Publishers, Books, Etc.

Architects Guild 44
Doubleday, Doran & Co., Inc. 45
The Flower Grower 65
Gardeners' Chronicle 64
Frederick H. Gowing 47
Home Designers Guild 63

Schools

American Landscape School 66

Tobacco and Cigarettes

American Tobacco Co. ..... Fourth Cover

Toilet Accessories

Hygienic Products Co. 44

Toiletries & Drug Supplies

Vick Chemical Co. 39

Shop Windows of To-day

F. B. Ackerman 47
The Boulevard Shop 46
Charles B. Brinkworth 47
E. E. Burroughs 47
Chattan Glasscraft, Inc. 46
Comfitape Laboratories 47
Aime Du Pont 47
Galloway Terra-Cotta Co. 47
Hatheway Patterson Corp. 47
W. B. Hearthway & Sons 46
Kalamazoo Vegetable Parchment Co. 46
Daniel Low & Co. 47
Malleable Steel Range Co. 46
Mathews Bros. Co. 47
New York School of Interior Decoration 46
Adolph Silverstone, Inc. 47
Hyman Tuttman 47

BEFORE YOU BUY AND PLANT EITHER

PEONIES OR *Lilacs*

. . . . *send for this big free book in colors, just published by*

BRAND

Over 200 varieties of gorgeous peonies for spring planting—singles, doubles, "Japs"—all colors, highest ratings—early, midseason, late. Many bargain collections. 60 acres, 65 years of peony culture!

Also WORLD'S LARGEST STOCK of OWN-ROOT lilacs—over 160 new French varieties. All colors. All GUARANTEED TRUE TO NAME. Strong thrifty tops. Large magnificent blooms. Brand's Lilacs are GROWN ON THEIR OWN ROOTS—therefore no danger of suckers choking out mother bush. Ask for new catalog in colors—peonies, lilacs, other perennials, ornamental trees, shrubs and fruits.

BRAND PEONY FARMS, Inc.
132 E. Division St., Faribault, Minn.

BRAND PEONY FARMS, Inc.,
132 E. Division St., Faribault, Minn.

Please send catalog.

Name .....
Address .....

Learn to be a
LANDSCAPE ARCHITECT
At home, by mail. Big fees. Pleasant, healthful work. Experts earn $50 to $200 a week. You can earn while learning. Write today for details.
AMERICAN LANDSCAPE SCHOOL
64 Plymouth Bldg.
Des Moines, Ia.

Send for our free Catalog featuring
POMPON and MINIATURE DAHLIAS
New types and better prices. Wholesale & retail. Choice Pompon Seed mixed or in colors 100—$1.00. Miniature Seed trial pkg. 25c.
M. C. HAAKE, Bolsa Dahlia Garden
199 Oakdale Ave. Mill Valley, California

UNUSUAL GLADIOLI
Grow these large brilliant colored flowers on plants vigorous with strength. SEND **ONLY $1.00 FOR 25** mammoth bulbs in glorious rainbow colored mixture.
WIRTH
Merchantville New Jersey

WOMEN to do plain sewing at home. Good pay. No canvassing or selling. We supply you with work. Sewing machine necessary. Lafayette Corporation. 353 Saint Nicholas. Montreal, Quebec. Dept. 3
(*Postage to Montreal now 3¢*)

ELECTRIC LIGHTS ANYWHERE
Complete Lite Plant ready to run. Supplies 300 watts, 110 volt Direct Current. Operates electrical appliances. $99
Fine for Lake Cottage, Camp, Farm.—*Wiring complete and ten lights $18.* Also other D.C. and A.C. models. *Write* D. W. ONAN & SONS, 79 Royalston Ave., Minneapolis, Minn.

If You Want the Finest **DAHLIAS**
Send for our catalog
Somerhousen Dahlia Gardens
Chestnut Hill Philadelphia, Pa.

BEAUTIFUL BIRDS
4 Pairs Assorted for $15.00
1 Pr. Green Parakeets
1 Pr. Yellow Parakeets
1 Pr. Zebra Finches
1 Pr. Java Rice Birds
ACTUAL VALUE
SPECIAL PRICE $15.00
for all 4 pairs shipped safely to you
BEAUTIFUL CANARY SINGERS
Send P. O. Money Order with your order
ILLUSTRATED CATALOG FREE TO BIRD LOVERS
BIRD HAVEN, R. F. D. 2204, Roseda

Bird House
—designed by leading naturalist to attract song birds. Scientifically built of rustic cedar—no imitation board used. $1.00 postpaid. Regular price $1.45. Catalog of famous Lincraft Garden Furniture, sent free to every buyer. Send one dollar today on money back guarantee. New Jersey Fence Co., 106 Logan Ave., Burlington, New Jersey.

Write Doubleday, Doran & Company Inc., Garden City, Long Island, for a list of their NATURE BOOKS.

A PORTFOLIO of AMERICAN HOME DESIGNS
Declared by recognized authorities to be the finest compilation of 5-11 room Colonial, French and English designs. Photographs, perspectives and floor plans. Price $2.00 Postpaid. *Complete architectural service.* HOME DESIGNERS GUILD, Inc.
260 Tremont Street Boston, Mass.

MAKE BIG MONEY
A year raising rabbits for us. We pay $12.00 each for all you raise. Send 25c for information and contract, everything explained. Send at once and find out about this big position we have to offer you.
THE EASTERN RABBITRY
Route 1, Box 298 New Freedom, Pa.